

GenCore version 5.1.6			
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4 nucleic - nucleic search, using sw model			
run on:	July 4, 2003, 00:36:13 ;	Search time 456 Seconds (without alignments)	9951.264 Million cell updates/sec
title:	US-10-007-010-3		
perfect score:	2015		atataaatgcaagtcttacg 2015
sequence:	1 cggggcacggaaatgttggg.....atataatgcaagtcttacg		
scoring table:	OLIGO_NUC		
Gapop:	60.0 , Gapext 60.0		
searched:	2185239 seqs, 112599159 residues		
total number of hits satisfying chosen parameters:	4370478		
minimum DB seq length: 0			
maximum DB seq length: 2000000000			
Post-processing: Listing first 45 summaries			
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24:	/SIDS2/gcadata/geneseq/geneseq/geneseq-emb1/NA2002.DAT:*		
RESULT 1			
		ABK83939	
		ID	ABK83939 standard; cdNA: 2015 BP.
		XX	
		AC	ABK83939;
		XX	
		DT	14-AUG-2002 (first entry)
		XX	Human CDNA differentially expressed in granulocytic cells #510.
		DE	Human ss; granulocytic cell; DNA chip; bacterial infection;
		XX	viral infection; parasitic infection; protozoal infection;
		KW	fungal infection; sterile inflammatory disease; psoriasis;
		KW	rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
		KW	cardiac reperfusion injury; renal reperfusion injury; ARDS;
		KW	adult respiratory distress syndrome; inflammatory bowel disease;
		KW	Crohn's disease; ulcerative colitis; Periodontal disease;
		KW	granulocyte activation; chronic inflammation; allergy.
		XX	
		OS	Homo sapiens.
		XX	W0200228999-A2.
		XX	11-APR-2002.
		PD	
		PF	03-OCT-2001; 2001WO-US30821.
		XX	
		PR	03-OCT-2000; 2000US-237189P.
		XX	
		PA	(GENE-) GENE LOGIC INC.
		XX	
		PI	Beazer-Barclay Y., Weissman SM., Yamaga S., Vockley J.

QY	301	CACACACAAACACCAAGGATCAGGGCCAGGCTCGTGAAGAACATCATGTTGCC	360
DR	301	CACACACAAACACCAAGGATCAGGGCCAGGCTCGTGAAGAACATCATGTTGCC	360
XX	Detecting granulocyte activation by detecting differential expression of genes associated with granulocyte activation, which serves as diagnostic markers that is useful for monitoring disease states and drug toxicity -		
XX	Claim 1; SEQ ID No 510; 114pp; English.		
CC	The invention relates to detecting (M1) granulocyte (GC) activation (GCA), by detecting the level of expression of gene(s) (Gs) identified by DNA chip analysis as given in the specification, and comparing the expression level to an expression level in an unactivated GC, where differential expression of Gs is indicative of GCA. Also included are modulating (M2) GA by contacting GC with an agent that alters the expression of at least one gene in Gs; (2) screening (M3) for an agent capable of modulating GCA or an inflammatory disease (chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease using the gene expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by detecting the level of expression in a sample of the tissue of gene(s) from Gs, where the level of expression of the gene is indicative of inflammation; (4) treating (M5) an inflammation (especially chronic) or in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by contacting a tissue having inflammation with an agent that modulates the expression of gene(s) from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful for screening an agent capable of modulating GCA preferentially in an inflammation in a tissue; M4 is useful for detecting an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease (e.g., psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal reperfusion injury, ARDS, adult respiratory distress syndrome, inflammatory bowel disease, Crohn's disease, ulcerative colitis, periodontal disease; also bacterial infection, viral infection, parasitic infection, protozoal infection, fungal infection and M5 is useful for treating one of the above conditions. The present sequence represents a gene differentially expressed in granulocytes. Note: The sequence data for this patient did not form part of the printed specification, but was obtained in electronic format directly from WIPO at <a href="ftp://wipo.int/pub/published_pct_sequences">ftp://wipo.int/pub/published_pct_sequences</a> .		
QY	302	WPI: 2002-435328/46.	
DB	301	Detecting granulocyte activation by detecting differential expression of genes associated with granulocyte activation, which serves as diagnostic markers that is useful for monitoring disease states and drug toxicity -	
QY	302	Claim 1; SEQ ID No 510; 114pp; English.	
DB	301	CACACACAAACACCAAGGATCAGGGCCAGGCTCGTGAAGAACATCATGTTGCC	360
QY	361	CTGTATGATTAGGGCCATTACACACAGGATTCAGGAGGACAGATG 420	
DB	361	CTGTATGATTAGGGCCATTACACACAGGATTCAGGAGGACAGATG 420	
QY	421	GTTGTCCTAGAGGAATCGGGGAGTCGGATGCCACGGGAGGGAGGG 480	
DB	421	GTTGTCCTAGAGGAATCGGGGAGTCGGATGCCACGGGAGGGAGGG 480	
QY	481	GCCATACATCCAAAGCAACTAATGTCGGCTTGACTCTGGACAGAGGAGGTGTT 540	
DB	481	GCCATACATCCAAAGCAACTAATGTCGGCTTGACTCTGGACAGAGGAGGTGTT 540	
QY	541	TTCAGGGCATTCAGCCGAAGGACCCAACTGTGGCCCCGCAACATGCTG 600	
DB	541	TTCAGGGCATTCAGCCGAAGGACCCAACTGTGGCCCCGCAACATGCTG 600	
QY	601	GGCTCCCTCATGATCGGGATAGGGAGACCAATAAGGAGCTACTCTTGTCGTTGCCA 660	
DB	601	GGCTCCCTCATGATCGGGATAGGGAGACCAATAAGGAGCTACTCTTGTCGTTGCCA 660	
QY	661	GACTACGACCCCTGZAGGGAGATACGGTAACATACAGATCGGACCCNTGACAC 720	
DB	661	GACTACGACCCCTGZAGGGAGATACGGTAACATACAGATCGGACCCNTGACAC 720	
QY	721	GGGGCTTCTCATATTCATATCCTCCGAACCCGAAACCCCTTCAAGGAGCTGTGGACCAC 780	
DB	721	GGGGCTTCTCATATTCATATCCTCCGAACCCGAAACCCCTTCAAGGAGCTGTGGACCAC 780	
QY	781	TACAAGAAGGGAAACGACGGGCTTGCAGAAACACTGCTGGTGCATGTCCTCCAG 840	
DB	781	TACAAGAAGGGAAACGACGGGCTTGCAGAAACACTGCTGGTGCATGTCCTCCAG 840	
QY	841	CCCGAGGAGCCTTGZAGAAAGATGCTGGAGATCCCTCGGAATCCCTCAAGGTGGAG 900	
DB	841	CCCGAGGAGCCTTGZAGAAAGATGCTGGAGATCCCTCGGAATCCCTCAAGGTGGAG 900	
QY	901	AAGAAACTTGGAGCTGGCAGHTGGGAAGTTCGGAAACTCTGGATGGCACCTACAAAGACACC 960	
DB	901	AAGAAACTTGGAGCTGGCAGHTGGGAAGTTCGGAAACTCTGGATGGCACCTACAAAGACACC 960	
QY	961	AAGGTGGCAGTGAAGAACGATGAAGCCAGGGAGCATCTGGTGGAGGCCCTCTGGCAGAG 1020	
DB	961	AAGGTGGCAGTGAAGAACGATGAAGCCAGGGAGCATCTGGTGGAGGCCCTCTGGCAGAG 1020	
QY	1021	GCCAAGCTGTGATAAAACTCTGGAGATGAGCTGGTCAAACCTCATGGGTGTCACCT 1080	
DB	1021	GCCAAGCTGTGATAAAACTCTGGAGATGAGCTGGTCAAACCTCATGGGTGTCACCT 1080	
QY	1081	AAGGAGCCCATCTACATCACGGAGTTCTGGATGAGCTTCAGCCAGATT 1140	
DB	1081	AAGGAGCCCATCTACATCACGGAGTTCTGGATGAGCTTCAGCCAGATT 1140	
QY	1141	AAAATGTGATGAGGGCAGCAAGCCATTGCTCATCGAGGAGACTATCCACGGAGCTTCAGGCT 1200	
DB	1141	AAAATGTGATGAGGGCAGCAAGCCATTGCTCATCGAGGAGACTATCCACGGAGCTTCAGGCT 1200	
QY	1201	GCAGAAGGCATGGCCTCATCGAGGAGACTATCCACGGAGCTTCAGGCT 1260	
DB	1201	GCAGAAGGCATGGCCTCATCGAGGAGACTATCCACGGAGCTTCAGGCT 1260	
QY	1261	AACATCTGGTCTGGATCCCTGZAGATGGTAAAGTGGTCAACTTGGCTTGGGGTC 1320	
DB	1261	AACATCTGGTCTGGATCCCTGZAGATGGTAAAGTGGTCAACTTGGCTTGGGGTC 1320	
QY	1321	ATTGGAGACAGGAGTACACGGCTGGGAAGGGCCAAGTTCCTCCATCAAGTGGACAGCT 1380	
DB	1321	ATTGGAGACAGGAGTACACGGCTGGGAAGGGCCAAGTTCCTCCATCAAGTGGACAGCT 1380	
QY	1381	CTGGAAAGCCATACACTTGGCTTCCATCAAGCTGGCTTGGTACTTGGCTTGGTACTTCAGCTG 1440	

Db	1.381	CCTGAAGCCATCAACTTGGTCCCTCACCATCAAGTCAGCGTCGGGATCCTAACCGGATGTCAACCCCTGAA	1440
Qy	1.441	CTGCGTATGGAGATCGTCACCTACGGCGATCCCTAACCGGATGTCAACCCCTGAA	1500
Db	1.441	CTGCGTATGGAGATCGTCACCTACGGCGATCCCTAACCGGATGTCAACCCCTGAA	1500
Qy	1.501	GTGATCGAGCTCTGGAGCTGGATACCGGATGCCCTGCAGAAGACTGCCAGAGGG	1560
Db	1.501	GTGATCGAGCTCTGGAGCTGGATACCGGATGCCCTGCAGAAGACTGCCAGAGGG	1560
Qy	1.561	CTCTAACACATCATGATGCCGTGCGAAAAAACCCCTCGGGGAGGCCCTCGAA	1620
Db	1.561	CTCTAACACATCATGATGCCGTGCGAAAAAACCCCTCGGGGAGGCCCTCGAA	1620
Qy	1.621	TACATCGAGTGTGGATGACTCTACAGGCACAGGCACTACAGGCACTACAGGCA	1680
Db	1.621	TACATCGAGTGTGGATGACTCTACAGGCACAGGCACTACAGGCACTACAGGCA	1680
Qy	1.681	CCATGATAGGGAGCACGGCAGGGCAGGGCAGGGCAGGGCAGGGCAGGGCAG	1740
Db	1.681	CCATGATAGGGAGCACGGCAGGGCAGGGCAGGGCAGGGCAGGGCAGGGCAG	1740
Qy	1.741	CCAGCACCATCGCCAGGGCCACACCCCTTCCTACTCCCAGACACCCAGCTCGCTTC	1800
Db	1.741	CCAGCACCATCGCCAGGGCCACACCCCTTCCTACTCCCAGACACCCAGCTCGCTTC	1800
Qy	1.801	AGCCAAGTTCTCATCTGTGTCAGTGGTGAAGTTGACTGCAAATCTCTTTGACTC	1860
Db	1.801	AGCCAAGTTCTCATCTGTGTCAGTGGTGAAGTTGACTGCAAATCTCTTTGACTC	1860
Qy	1.861	TTGCAATTCCACAAATCTGACATCTGACAGGAAACTTTCAAATAGTGAATGA	1920
Db	1.861	TTGCAATTCCACAAATCTGACATCTGACAGGAAACTTTCAAATAGTGAATGA	1920
Qy	1.921	ATGGCTGGATTTTAGTTACATGACATCTGACAGGAAACTTTCAAATAGTGAATGA	1980
Db	1.921	ATGGCTGGATTTTAGTTACATGACATCTGACAGGAAACTTTCAAATAGTGAATGA	1980
Qy	1.981	ATATTAATAAAAGATAATAATGCAAGTCCTAG	2015
Db	1.981	ATATTAATAAAAGATAATAATGCAAGTCCTAG	2015
RESULT 2			
	ABL66673	ABL66673 standard; DNA; 2015 bp.	
ID	XX	ABL66673;	
XX	AC		
XX	DT	15-MAY-2002 (first entry)	
XX	DE	Lung cancer related gene sequence SEQ ID NO:5010.	
XX	KW	Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid; stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous; cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma; gene; ds.	
XX	KW	Homo sapiens.	
OS	XX		
PN	XX	WO200194629-A2.	
PD	XX	13-DEC-2001.	
XX	XX	30-MAY-2001; 2001IWO-US10838.	
XX	PR	05-JUN-2000; 2000US-209473P.	
PR	PR	05-JUN-2000; 2000US-209531P.	
PR	PR	18-SEP-2000; 2000US-233133P.	
PR	PR	18-SEP-2000; 2000US-233617P.	
PR	PR	20-SEP-2000; 2000US-234009P.	
PR	PR	20-SEP-2000; 2000US-234034P.	

20-SEP-2000; 2000US234052P.  
 22-SEP-2000; 2000US234509P.  
 22-SEP-2000; 2000US234567P.  
 25-SEP-2000; 2000US234923P.  
 25-SEP-2000; 2000US234924P.  
 25-SEP-2000; 2000US235077P.  
 25-SEP-2000; 2000US235082P.  
 25-SEP-2000; 2000US235134P.  
 25-SEP-2000; 2000US235280P.  
 26-SEP-2000; 2000US235637P.  
 26-SEP-2000; 2000US235638P.  
 27-SEP-2000; 2000US235713P.  
 27-SEP-2000; 2000US235720P.  
 27-SEP-2000; 2000US235863P.  
 28-SEP-2000; 2000US236028P.  
 28-SEP-2000; 2000US236032P.  
 28-SEP-2000; 2000US236033P.  
 28-SEP-2000; 2000US236034P.  
 28-SEP-2000; 2000US236111P.  
 29-SEP-2000; 2000US236842P.  
 02-OCT-2000; 2000US237172P.  
 02-OCT-2000; 2000US237173P.  
 02-OCT-2000; 2000US237294P.  
 02-OCT-2000; 2000US237295P.  
 02-OCT-2000; 2000US237416P.  
 03-OCT-2000; 2000US237417P.  
 03-OCT-2000; 2000US237598P.  
 03-OCT-2000; 2000US237604P.  
 03-OCT-2000; 2000US237610P.  
 03-OCT-2000; 2000US237708P.  
 01-NOV-2000; 2000US244867P.  
 01-NOV-2000; 2000US245084P.

(AVAL-) AVALON PHARM.

Young PE, Augustus M, Carter Soppet DR, Weaver Z;  
 WPI: 2002-188264/24.

Screening for anti-neoplastic chemical agent to be tested determining a change in expression of at least one gene comprising a sequence (S) selected from AB71010, or at least one sequence of at least one nucleotide sequence which is indicative of activity and can be used in an anti-neoplastic agent. The method is the data collected with the result of M<sub>1</sub>, and the data structure and/or properties of treatment of cancer such as oesophageal, ovarian, kidney, adenocarcinoma, carcinoma, infiltrating lobular cancer carcinoma, papillary carcinoma.

Sequence 2015 BP; 512 A; 541 Query Match 100.0%  
 Best Local Similarity 100.0%  
 Matches 2015; Conservative

Qy	1 CGGAGGAAGAAGATGAGGAAGATCATCAGGAGGATGATGAAGGTGAAAGGGAGATGA 60	Qy	1081 AAGGAGGCCATCTACATCATCAGGAGATTTCATGCCAAAGGAAGCTTGGACTTTCTG 1140
Db	1 CGGAGGAAGAAGATGAGGAAGATCATCAGGAGGATGATGAAGGTGAAAGGGAGATGA 60	Db	1081 AAGGAGGCCATCTACATCATCAGGAGATTTCATGCCAAAGGAAGCTTGGACTTTCTG 1140
Qy	61 AGACGATGAGCACGATGCTGAGGGAGCTCAGGGCTGGCCAGCTGGAGCTGGGGCGCTC 120	Qy	1141 AAGATGATGAGGGAGCAAGGGCATATTGCAAAACTCATTTGACTTCTAGCTTCTGGAGCTTCTG 1200
Db	61 AGACGATGAGCACGATGCTGAGGGAGCTCAGGGCTGGCCAGCTGGGGCGCTC 120	Db	1141 AAGATGATGAGGGAGCAAGGGCATATTGCAAAACTCATTTGACTTCTAGCTTCTGGAGCTTCTG 1200
Qy	121 AAGCTGGAGGATTCGGGCGCCGGAGCAGGAGGGGGCCAGATGGGTGATG 180	Qy	1201 GCAGAAGSGCATGGCTCCTACATCAGCAGAGGAACTATACTACCGGAGCTGGACCTTGCC 1260
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Qy	181 AAGTCCAAGTTCCTCGGTGGAGGCAATACTTCAAACCGGCCAGC 240	Qy	1261 AACATCTGGTGTCTGCATCCCTGATCCCCTGATCCCCTGATGTTGTAAGATTTGCTGACTTTGCCCCGGGTC 1320
Db	181 AAGTCCAAGTTCCTCGGTGGAGGCAATACTTCAAACCGGCCAGC 240	Db	1261 AACATCTGGTGTCTGCATCCCCTGATCCCCTGATGTTGTAAGATTTGCTGACTTTGCTGCCCCGGGTC 1320
Qy	241 CCACAGTGTCTGTGTACGTGCGGGATCCCCACATCCACCCATCAAGGCCGCTTAATG 300	Qy	1321 ATTGAGGACAAGGATGACCGCTGGGGAAAGGGGGCAAGTTCCTCAAACTGGAACAGCT 1380
Db	241 CCACAGTGTCTGTGTACGTGCGGGATCCCCACATCCACCCATCAAGGCCGCTTAATG 300	Db	1321 ATTGAGGACAAGGATGACCGCTGGGGAAAGGGGGCAAGTTCCTCAAACTGGAACAGCT 1380
Qy	301 CACAAGAACACACACCCAGAAATCAGGAGGGCAGCTGATCGCTGGTCCC 360	Qy	1381 CCTGAAACCACACCTTGGTCTCCACCATCAACTCATCAGCTGGTCTCTTGATGTC 1440
Db	301 CACAAGAACACACACCCAGAAATCAGGAGGGCAGCTGATCGCTGGTCCC 360	Db	1381 CCTGAAACCACACCTTGGTCTCCACCATCAACTCATCAGCTGGTCTCTTGATGTC 1440
Qy	361 CTGTATGATTAGCAGGCCATTACACAGGAAAGACCTCAGCTTCCAGAAGGGGACCATG 420	Qy	1441 CTNGCTGTGGAGCATGTCTACCTACAGGGATGATCCCTACCCAGGATGTCAAACCTGAA 1500
Db	361 CTGTATGATTAGCAGGCCATTACACAGGAAAGACCTCAGCTTCCAGAAGGGGACCATG 420	Db	1441 CTNGCTGTGGAGCATGTCTACCTACAGGGATGATCCCTACCCAGGATGTCAAACCTGAA 1500
Qy	421 GTGGGCTCTAGGAAATCAGGGAGTCGGGAGTCTGGTGAAGGCTGATCTGGCAACCGGAAGGAG 480	Qy	1501 GTGATCCGAGCTTGAGCTGGATACCGGATGCCCTACAGGAACTCCCAAGAGGG 1560
Db	421 GTGGGCTCTAGGAAATCAGGGAGTCGGGAGTCTGGTGAAGGCTGATCTGGCAACCGGAAGGAG 480	Db	1501 GTGATCCGAGCTTGAGCTGGATACCGGATGCCCTACAGGAACTCCCAAGAGGG 1560
Qy	481 GGCTATCCAGAAAGTATGTCGCCCCGTGACTCTGTGAGCAGGAGTGT 540	Qy	1561 CTCTACACATCATGATGCGCTGCTGAAAACCGTCCGGAGGACGGGGACCTTCGAA 1620
Db	481 GGCTATCCAGAAAGTATGTCGCCCCGTGACTCTGTGAGCAGGAGTGT 540	Db	1561 CTCTACACATCATGATGCGCTGCTGAAAACCGTCCGGAGGACGGGACCTTCGAA 1620
Qy	541 TTCAAGGGCATTCAGCGGAGGGAGCTGATGTCGCCCGTGTGACTCTGTGAGCAGGAGTGT 540	Qy	1621 TACATCCGAGACTGTTGCTGGATGACTCTCATCAGGCCACAGACAGCAG 1680
Db	541 TTCAAGGGCATTCAGCGGAGGGAGCTGATGTCGCCCGTGTGACTCTGTGAGCAGGAGTGT 540	Db	1621 TACATCCGAGACTGTTGCTGGATGACTCTCATCAGGCCACAGACAGCAG 1680
Qy	601 GGCTCCTCATGTCGGGATAGCGGAGGACTAAAGGAAGCTACTCTGGTGCCTGG 660	Qy	1681 CCATGATAGGGAGGCCAGGGGAGCTGGCTGGCTGGAGGGGGCT 1740
Db	601 GGCTCCTCATGTCGGGATAGCGGAGGACTAAAGGAAGCTACTCTGGTGCCTGG 660	Db	1681 CCATGATAGGGAGGCCAGGGGAGCTGGCTGGCTGGAGGGGGCT 1740
Qy	661 GACTACGAACCTCGGGCTCATATCCCGGAGGAGTACCGTACATCAAGATCCGGACACTGGCAC 720	Qy	1741 CCAGCACCATCCGCAAGGGCCACACCCCTTCTACTCCAGACACCCACCTCGCTTC 1800
Db	661 GACTACGAACCTCGGGCTCATATCCCGGAGGAGTACCGTACATCAAGATCCGGACACTGGCAC 720	Db	1741 CCAGCACCATCCGCAAGGGCCACACCCCTTCTACTCCAGACACCCACCTCGCTTC 1800
Qy	721 GGGGCTCTCATATCCCGGAGGAGTACCGTACATCAAGATCCGGACACTGGCAC 780	Qy	1801 AGCCACAGTTTCCTCATCTGTCAGCTGGTAGTTGGACTGGAAATACTCTTTTGACTC 1860
Db	721 GGGGCTCTCATATCCCGGAGGAGTACCGTACATCAAGATCCGGACACTGGCAC 780	Db	1801 AGCCACAGTTTCCTCATCTGTCAGCTGGTAGTTGGACTGGAAATACTCTTTTGACTC 1860
Qy	781 TACAAAGGGAAAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 840	Qy	1861 TTGCATCCAAATCTGACATTCTCAGGAAAGGCCCAAGTTCTCTGG 1920
Db	781 TACAAAGGGAAAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 840	Db	1861 TTGCATCCAAATCTGACATTCTCAGGAAAGGCCCAAGTTCTCTGG 1920
Qy	841 CCCCAAGAACCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 900	Qy	1921 ATGGTTGGGATTTAGTTACGCTGTGATTTGGAAGAAACTTCAAATAATGAAATGA 1980
Db	841 CCCCAAGAACCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 900	Db	1921 ATGGTTGGGATTTAGTTACGCTGTGATTTGGAAGAAACTTCAAATAATGAAATGA 1980
Qy	901 AAGAAACTTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 960	Qy	1981 ATATTTAAATAAAAGATAATAATGGAAGTCTTACG 2015
Db	901 AAGAAACTTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 960	Db	1981 ATATTTAAATAAAAGATAATAATGGAAGTCTTACG 2015
Qy	961 AAGTGGCAGTGAAGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 1020	RESULT 3	
Db	961 AAGTGGCAGTGAAGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 1020	ID	ABK83940 standard; cdNA; 1926 BP.
Qy	1021 GCCAACCTGATGAGAAAACCTCTGCAAGGATGCCAGCTGGCTGCCACC 1080	XX	
Db	1021 GCCAACCTGATGAGAAAACCTCTGCAAGGATGCCAGCTGGCTGCCACC 1080	AC	ABK83940;
		XX	
		DT	14 - AUG - 2002 (first entry)

Human cDNA differentially expressed in granulocytic cells #511.

Human; ss; granulocytic cell; DNA chip; bacterial infection; viral infection; parasitic infection; protozoal infection; fungal infection; sterile inflammatory disease; psoriasis; rheumatoid arthritis; glomerulonephritis; asthma; thrombosis; cardiac reperfusion injury; renal reperfusion injury; ARDS; adult respiratory distress syndrome; inflammatory bowel disease; Crohn's disease; ulcerative colitis; periodontal disease; granulocyte activation; chronic inflammation; allergy. Homo sapiens.

WO200228999-A2.

11-APR-2002.

03-OCT-2001; 2001WO-US30821.

03-OCT-2000; 2000US-237189P.

(GENE-) GENE LOGIC INC.

Beazer-Barclay Y., Weissman SM, Yamaga S, Vockley J;

WPI; 2002-455328/46.

Detecting granulocyte activation by detecting differential expression of genes associated with granulocyte activation, which serves as diagnostic markers that is useful for monitoring disease states & drug toxicity -

Claim 1; SEQ ID No 511; 114pp; English.

The invention relates to detecting (M1) granulocyte (GC) activation (GCA), by detecting the level of expression of gene(s) (Gs) identified by analysis as given in the specification, and comparing the expression level to an expression level in an unactivated GC, where differential expression of Gs is indicative of GCA. Also included are modulating (M2) GA by contacting GC with an agent that alters the expression of at least one gene in Gs; (2) screening for an agent capable of modulating GCA or an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure to a pathogen or sterile inflammatory disease, by detecting the gene expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure to a pathogen or sterile inflammatory disease, by contacting tissue having inflammation with an agent that modulates the expression of gene(s) from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful for screening an agent capable of modulating GCA, preferably in an inflammation in a tissue; M4 is useful for detecting an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease (e.g. psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, reperfusion injury, ARDS, adult respiratory distress syndrome, inflammatory bowel disease, Crohn's disease, ulcerative colitis, periodontal disease; also bacterial infection, viral infection, parasitic infection, protozoal infection, fungal infection and M5) useful for treating one of the above conditions. The present sequence represents a gene differentially expressed in granulocytes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/pub/published\\_pct\\_seqs](ftp://wipo.int/pub/published_pct_seqs).

Sequence 1926 BP: 497 A: 522 C: 520 G: 387 T: 0 other;

Db	1105 ATTCGAGGAGCATGGCTTCATCGAGGAGAACTAACATCCACCGAGACCTCCGGAGCT 1164	CC protein of human immune deficiency virus (HIV) which comprises: (i) a CC protein domain 1 that binds to a di-leucine (LL) motif; (ii) a polypeptide CC linker between protein domains 1 and 2 that binds to a PXXP motif; and (iii) a protein domain 2 that binds to a PXXP motif; and (iv) a polypeptide linker between protein domains 1 and 2. The products of the invention CC have virucide and anti-HIV activity and are capable of neutralising Nef, CC an accessory protein essential for pathogenicity of HIV-1. The fusion protein of the invention comprises the LL domain of the beta-subunit of CC the adapter-protein complex AP-1 and the PXXP domain of the CC tyrosine kinase Hck, linked through a 60 amino acid peptide. The products CC of the invention are used for in vitro diagnosis of AIDS and for CC AIDS. The LL and PXXP motifs are specific for Nef, which, CC unlike HIV protease, has no human homologue, so the fusion protein (which CC binds Nef with very high affinity) should cause essentially no side CC effects. This sequence represents a human derived nucleotide fragment CC used in the construction of the fusion protein of the invention and which CC contains a PXXP-motif binding motif useful to the invention.
OY	1258 GCCAACACTTGTGCTCTGCACTTGCTGACTTGCTGACTTGCTGAGTTGGCTGGCGG 1317	Sequence 183 BP; 41 A; 50 C; 56 G; 36 T; 0 other;
Db	1165 GCCAACACTTGTGCTCTGCACTTGCTGACTTGCTGAGTTGGCTGGCGG 1224	Query Match 9.1%; Score 183; DB 24; Length 183;
OY	1318 GTCATTGAGCACACGAGTAACGGCTGGGAGGGCCAACTTCCCATAAGTGACA 1377	Best Local Similarity 100.0%; Pred. No. 1.8e-79;
Db	1225 GTCATTGAGCACACGAGTAACGGCTGGGAGGGCCAACTTCCCATAAGTGACA 1284	Matches 183; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1378 GCCTCTGAAGGCCATCAACTTGTGCTCCCTCACCATAAAGTCAGACCTCTGGTCCCTTGST 1437	Query 337 TCTGGGGACATCATGGGGTGGCTGTATGATTAGGGCCATTACCGAAGACCTC 396
Db	1285 GCCTCTGAAGGCCATCAACTTGTGCTCCCTCACCATAAAGTCAGACCTCTGGTCCCTTGST 1344	Db 1 TCTGGGGACATCATGGGGTGGCTGTATGATTACGGGCCATTACCGAAGACCTC 60
OY	1438 ATCCGTGCTATGGAGGATGTCACCTAGGGATGGATAACCCAGGATGTCACACCT 1497	Query 397 AGCTTCAGAGGGGACAGATGTGGCTGCTAGGAACTGGGACTGGTGAAAGCT 456
Db	1345 ATCCGTGCTATGGAGGATGTCACCTAGGGATGGATAACCCAGGATGTCACACCT 1404	Db 61 AGCTTCAGAGGGGACAGATGTGGCTGCTAGGAACTGGGACTGGTGAAAGCT 120
OY	1498 GAACTGATCCAGGATGTCACCTAGGGATGGATAACCCAGGATGTCACACCT 1557	Query 457 CGATCCCTGGCCACCGGAAGGGCTACATCCAAAGCAACTATGTCGCCGGTGAC 516
Db	1405 GAATGTGATGGAGGATGTCACCTAGGGATGGATAACCCAGGATGTCACACCT 1464	Db 121 CGATCCCTGGCCACCGGAAGGGCTACATCCAAAGCAACTATGTCGCCGGTGAC 180
OY	1558 GAGCTCTAACATCATGATGGCTGGTGGAAAAACCGTCCGGAGGAGGGCGACCTTC 1617	Query 517 TCT 519
Db	1465 GAGCTCTAACATCATGATGGCTGGTGGAAAAACCGTCCGGAGGAGGGCGACCTTC 1524	Db 181 TCT 183
OY	1618 GAATACATCCAGAGTGTCTGGTAGCTCACGECACAGAGCAGCACTAACACAG 1677	RESULT 5
Db	1525 GAATACATCCAGAGTGTCTGGTAGCTCACGECACAGAGCAGCACTAACACAG 1584	ABL61215 standard; DNA; 1416 BP.
OY	1678 CAGCCATGATAGGGAGGACCAGGGCAGGGMGGCCAGGTGGTGGGGCT 1729	XX ID ABL61215;
Db	1585 CAGCCATGATAGGGAGGACCAGGGCAGGGMGGCCAGGTGGTGGGGCT 1636	AC ABL61215;
<b>RESULT 4</b>		
ABL61214	standard; DNA; 183 BP.	XX
XX		XX
AC	ABL61214;	XX
XX		XX
DT	04-SEP-2002 (first entry)	XX
XX		XX
DE	Human nucleotide fragment capable of inactivating HIV Nef protein.	XX
XX		XX
KW	Nef protein; fusion protein; virucide; anti-HIV; accessory protein; pathogenicity; diagnosis; AIDS; human; ds.	XX
XX		XX
OS	Homo sapiens.	XX
XX		XX
PN	DE10109532-C1.	XX
XX		XX
PD	13-JUN-2002.	OS Rattus sp.
XX		OS Homo sapiens.
PF	28-FEB-2001; 2001DE-1009532.	OS Synthetic.
XX		XX
PR	28-FEB-2001; 2001DE-1009532.	PN DE10109532-C1.
XX		XX
(GEYER/ PA	(GEYER/ Geyer M.	XX
(FACK/ PA	(FACK/ FACKLER O.	XX
XX		XX
PI	Geyer M;	XX
XX		XX
DR	WPI; 2002-418264/45.	XX
XX		XX
PT	New fusion protein that blocks Nef protein, useful for treatment or diagnosis of acquired immune deficiency syndrome, has high specificity -	PA (GEYER/ Geyer M.
PT	and affinity -	PA (FACK/ FACKLER O.
PS	Claim 12; Page 14; 22pp; German.	XX
XX		XX
CC	This invention describes a novel fusion protein for blocking the Nef	PT New fusion protein that blocks Nef protein, useful for treatment or

PT diagnosis of acquired immune deficiency syndrome, has high specificity  
 PT and affinity -  
 XX

PS Claim 13; Page 14-15; 22pp; German.

CC This invention describes a novel fusion protein for blocking the Nef  
 CC protein of human immune deficiency virus (HIV) which comprises: (i)  
 CC protein domain 1 that binds to a di-leucine (LL) motif; (ii) a  
 CC linker between protein domains 1 and 2 that binds to a PXXP motif; and (iii) a polypeptide  
 CC protein of the invention comprising the LL domain of the beta-subunit of  
 CC the adapter protein complex Ap-1 and the PXXP binding SH3 domain of  
 CC tyrosine kinase Hck, linked through a 60 amino acid peptide. The products  
 CC of the invention are used for in vitro diagnosis of AIDS and for  
 CC treatment of AIDS. The LL and PXXP motifs are specific for Nef, which,  
 CC unlike HIV protease, has no human homologue, so the fusion protein (which  
 CC binds Nef with very high affinity) should cause essentially no side  
 CC effects. This sequence represents a fusion construct composed of a rat  
 CC nucleotide fragment which contains a di-leucine (LL) motif and a human  
 CC nucleotide fragment containing a PXXP-motif binding domain useful to the  
 CC invention.

XX Sequence 1416 BP; 340 A; 383 C; 386 G; 307 T; 0 other;  
 SQ Query Match 9.0%; Score 181; DB 24; Length 1416;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-78;  
 Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 TGAGGACATCATCGTGGTTGCCCTGTATGATTACAGGAGCCATTACACAGAAAGACCTCAG 398  
 Db 1233 TGAGGACATCATCGTGGTTGCCCTGTATGATTACAGGCCATTACACAGAAAGCCTCAG 1292

QY 399 CTTCAGAAGGGGACCAAGATCGAGGAATCCGGGACTAGGGATCGGGACTGGCTCG 458  
 Db 1293 CTTCAGAAGGGGACCAAGATCGTGGCTTAGAGGAATCCGGGACTGGCTCG 1352

QY 459 ATCCCTGCCAACCGGAAGGAGGGCTATCCAAAGAACATATGTCGCCCGCTGTGACTC 518  
 Db 1353 ATCCCTGCCAACCGGAAGGAGGGCTATCCAAAGAACATATGTCGCCCGCTGTGACTC 1412

QY 519 T 519  
 Db 1413 T 1413

\* RESULT 6  
 AB161216 .

ID AB161216 standard; DNA; 1542 BP.  
 XX

AC

DT

04 SEP-2002 (first entry)

XX Rat/human fusion construct capable of inactivating HIV Nef protein.  
 XX Nef protein; fusion protein; virucide; anti-HIV; accessory protein;  
 KW pathogenicity; diagnosis; AIDS; rat; human; ds.  
 XX OS Rattus sp.  
 OS Homo sapiens.  
 OS Synthetic.

XX DE10109532-C1.

XX PR 28-FEB-2001; 2001DE-1009532.

XX PA (GEYE/) GEYER M.

PA (FACK/) FACKLER O.  
 XX  
 PI Geyer M;

DR WPI; 2002-410264/45.

XX New fusion protein that blocks Nef protein, useful for treatment or  
 PT diagnosis of acquired immune deficiency syndrome, has high specificity  
 PT and affinity -  
 XX

PS Claim 16; Page 15-16; 22pp; German.

XX This invention describes a novel fusion protein for blocking the Nef  
 CC protein of human immune deficiency virus (HIV) which comprises: (i)  
 CC protein domain 1 that binds to a di-leucine (LL) motif; (ii) a  
 CC polypeptide domain 2 that binds to a PXXP motif; and (iii) a polypeptide  
 CC linker between protein domains 1 and 2. The products of the invention  
 CC have virucide and anti-HIV activity and are capable of neutralising Nef,  
 CC an accessory protein essential for pathogenicity of HIV-1. The fusion  
 CC protein of the invention comprises the LL domain of the beta-subunit of  
 CC the adapter protein complex Ap-1 and the PXXP binding SH3 domain of  
 CC tyrosine kinase Hck, linked through a 60 amino acid peptide. The products  
 CC of the invention are used for in vitro diagnosis of AIDS and for  
 CC treatment of AIDS. The LL and PXXP motifs are specific for Nef, which,  
 CC unlike HIV protease, has no human homologue, so the fusion protein (which  
 CC binds Nef with very high affinity) should cause essentially no side  
 CC effects. This sequence represents a fusion construct composed of a rat  
 CC nucleotide fragment which contains a di-leucine (LL) motif and a human  
 CC nucleotide fragment containing a PXXP-motif binding domain useful to the  
 CC invention.

XX Sequence 1542 BP; 369 A; 419 C; 427 G; 327 T; 0 other;

SQ Query Match 9.0%; Score 181; DB 24; Length 1542;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-78;  
 Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 TGAGGACATCATCGTGGTTGCCCTGTATGATTACAGGAGCCATTACACAGAAAGCCTCAG 398  
 Db 1290 TGAGGACATCATCGTGGTTGCCCTGTATGATTACAGGCCATTACACAGAAAGCCTCAG 1349

QY 399 CTTCAGAAGGGGACCAAGATCGAGGAATCCGGGACTGGCTCTAGAGGAATCGGGGAGTGTTGAGGCTCG 458  
 Db 1350 CTTCAGAAGGGGACCAAGATCGTGGCTCTAGAGGAATCGGGGAGTGTTGAGGCTCG 1409

QY 459 ATCCCTGCCAACCGGAAGGAGGGCTATCCAAAGAACATATGTCGCCCGCTGTGACTC 518  
 Db 1410 ATCCCTGCCAACCGGAAGGAGGGCTACATCCAAAGAACATATGTCGCCCGCTGTGACTC 1469

QY 519 T 519

Db 1470 T 1470

RESULT 7

AAT19957

ID AAT19957 standard; cDNA to mRNA; 369 BP.

XX AC AAT19957;

XX DT 17-JUL-1996 (first entry)

XX Human gene signature HUMGS01089.  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
 KW human; cloning; mapping; non-biased library; diagnosis; detection;  
 KW cell typing; abnormal cell function; ss.

XX OS Homo sapiens.

XX PN WO9514772-A1.

XX PD 01-JUN-1995.

XX PF 11-NOV-1994; 94WO-JP01916.  
 XX PR 12-NOV-1993; 93JP-0355504.  
 PA (MATSUOKA) MATSUBARA K.  
 PA (OKUBO) OKUBO K.  
 PI Matsubara K., Okubo K;  
 XX DR WPI; 1995-206931/27.  
 XX PS Claim 1; Page 520; 2245pp; Japanese.

PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
 PT for diagnosis of abnormal cell function, by preparing cDNA that  
 PT reflects relative abundance of corresp. mRNA in specific human  
 PT tissues.  
 XX SQ Sequence 369 BP; 82 A; 97 C; 102 G; 75 T; 13 other;  
 XX SQ Query Match 8.4%; Score 169; DB 16; Length 369;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-72;  
 Matches 169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX SQ DB 1535 CTGGCCAGAGAACTGCCAGAGGAGCCTACAAACATCATGATGCGCTGCTGGAAACC 1594  
 33 CTGGCCAGAGAACTGCCAGAGGAGCCTACAAACATCATGATGCGCTGCTGGAAACC 92  
 XX SQ DB 1595 GTCCGGAGGAGGGCCGACCTCAATACATCCAGAGGTGCTGATGACTACAGG 1654  
 93 GTCCGGAGGAGGGCCGACCTCAATACATCCAGAGGTGCTGAGGACTCTACAGG 152  
 XX SQ DB 1655 CCACAGAGGCCAGTACACAGGCCATGATAGGGAGGACGGCA 1703  
 153 CCACAGAGGCCAGTACACAGGCCATGATAGGGAGGACGGCA 201  
 XX SQ DB 1595 GTCCGGAGGAGGGCCGACCTCAATACATCCAGAGGTGCTGATGACTACAGG 1654  
 93 GTCCGGAGGAGGGCCGACCTCAATACATCCAGAGGTGCTGAGGACTCTACAGG 152  
 XX SQ DB 1655 CCACAGAGGCCAGTACACAGGCCATGATAGGGAGGACGGCA 1703  
 153 CCACAGAGGCCAGTACACAGGCCATGATAGGGAGGACGGCA 201  
 XX SQ DB 1595 GTCCGGAGGAGGGCCGACCTCAATACATCCAGAGGTGCTGATGACTACAGG 1654  
 93 GTCCGGAGGAGGGCCGACCTCAATACATCCAGAGGTGCTGAGGACTCTACAGG 152  
 XX SQ DB 1655 CCACAGAGGCCAGTACACAGGCCATGATAGGGAGGACGGCA 1703  
 153 CCACAGAGGCCAGTACACAGGCCATGATAGGGAGGACGGCA 201  
 RESULT 8  
 ID ABA50558 standard; DNA; 171 BP.  
 AC ABA50558;  
 XX DT 01-FEB-2002 (first entry)  
 DE Human breast cell single exon nucleic acid probe #9253.  
 KW Human; microarray; single exon probe; gene expression; breast;  
 KW disease; cancer; ss.  
 OS Homo sapiens.  
 PN WO200157271-A2.  
 XX PD 09-AUG-2001.  
 XX OS Homo sapiens.

XX PF 30-JAN-2001; 2001WO-US00662.  
 XX PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-062366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024265.  
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX P1 Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX DR WPI; 2001-496932/54.  
 XX PT New spatially-addressable set of single exon nucleic acid probes,  
 PT useful for measuring gene expression in sample derived from human  
 PT breast, comprises number of single exon nucleic acid probes -  
 XX PS SEQ ID NO 9253; 327pp + sequence listing; English.  
 XX The invention relates to a spatially-addressable set of single exon  
 CC nucleic acid probes for measuring gene expression in a sample derived  
 CC from human breast and PR 47 cells. The method involves contacting  
 CC the probes with a collection of detectably labelled nucleic acids  
 CC derived from mRNA of human breast, and then measuring the label  
 CC bound to each probe of the microarray. The probes are useful for  
 CC verifying the expression of regions of genomic DNA predicted to  
 CC encode proteins. They are useful for gene discovery, and for  
 CC determining predisposition and/or prognosis breast disease. Gene  
 CC expression analysis is useful for assessing the toxicity of chemical  
 CC agents on cells. The microarray of this invention presents a far greater  
 CC diversity of probes for measuring gene expression, with far less bias  
 CC than expressed sequence tag microarrays. The method is suitable for  
 CC rapid production of functional information from genomic sequence. The  
 CC present sequence is a single exon nucleic acid probe of the invention.  
 CC Note: The sequence data for this Patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at [fip.wipo.int/pub/published\\_pct\\_sequences](http://fip.wipo.int/pub/published_pct_sequences).  
 XX SQ Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;  
 XX SQ Query Match 6.6%; Score 133; DB 22; Length 171;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-55;  
 Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX SQ DB 1352 GGCGCAAGTTCGCCATCAAGTGGACAGCTCTGAAGCCATGAACTTGGCTCCCTACCA 1411  
 1 1 GGCGCAAGTTCGCCATCAAGTGGACAGCTCTGAAGCCATCAACTTTGGCTCCCTACCA 60  
 XX SQ DB 1412 TCAAGTCAGAGTCGGCTCTGGATGAGATGTCACCTAGGGCCGA 1471  
 61 TCAAGTCAGAGTCGGCTCTGGATGAGATGTCACCTAGGGCCGA 120  
 XX SQ DB 1472 TCCCCAACCCAGG 1484  
 121 TCCCCAACCCAGG 133  
 RESULT 9  
 ID ABA68516 standard; DNA; 171 BP.  
 AC ABA68516;  
 XX DT 01-FEB-2002 (first entry)  
 DE Human foetal liver single exon nucleic acid probe #16821.  
 KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.  
 OS Homo sapiens.

XX WO200157277-A2.  
 XX PD 09-AUG-2001.  
 XX PD 09-AUG-2001; 2001WO-US00666.  
 XX PF 30-JAN-2001; 2001WO-US00669.  
 XX PF 30-JAN-2001; 2001WO-US00669.  
 XX PR 04-FEB-2000; 2000US-0180312.  
 XX PR 04-FEB-2000; 2000US-0180312.  
 XX PR 26-MAY-2000; 2000US-0207456.  
 XX PR 26-MAY-2000; 2000US-0207456.  
 XX PR 30-JUN-2000; 2000US-0608408.  
 XX PR 30-JUN-2000; 2000US-0608408.  
 XX PR 03-AUG-2000; 2000US-0632366.  
 XX PR 21-SEP-2000; 2000US-0234687.  
 XX PR 21-SEP-2000; 2000US-0234687.  
 XX PR 27-SEP-2000; 2000US-0234687.  
 XX PR 27-SEP-2000; 2000US-0234687.  
 XX PR 04-OCT-2000; 2000US-0236359.  
 XX PR 04-OCT-2000; 2000GB-0024263.  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 PA Penn SG, Hanelz DK, Chen W, Rank DR;  
 PA Penn SG, Hanelz DK, Chen W, Rank DR;  
 PI Penn SG, Hanelz DK, Chen W, Rank DR;  
 PI Penn SG, Hanelz DK, Chen W, Rank DR;  
 DR WPI; 2001-483447/52.  
 XX Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human fetal liver -  
 XX Claim 4; SEQ ID NO 16821; 639pp + sequence listing; English.  
 PS The invention relates to a single exon nucleic acid probe for  
 CC measuring human gene expression in a sample derived from human foetal  
 CC liver. The single exon nucleic acid probes can be used for predicting,  
 CC measuring and displaying gene expression in samples derived from human  
 CC fetal liver. The present sequence is a single exon nucleic acid  
 CC probe of the invention.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](ftp://wipo.int/pub/published_pct_sequences).  
 XX Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;  
 SQ Query Match 6.6%; Score 133; DB 22; Length 171;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-55;  
 Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1352 GGCGCAAGTCCCCATCAAGTGGACAGCTCCGTGAAGCCATCAACTTGGCTCCTTCACCA 1411  
 Db 1 GGCGCAAGTCCCCATCAAGTGGACAGCTCCGTGAAGCCATCAACTTGGCTCCTTCACCA 60  
 ; QY 1412 TCAAGTCAGACGCTCTGGGTCTTGGTATCCCTGGTATGGAGATCGTACCTACGGCGGA 1471  
 Db 61 TCAAGTCAGACGCTCTGGTCTTGGTATCCCTGGTATGGAGATCGTACCTACGGCGGA 120  
 QY 1472 TCCCTTAACCCAGG 1484  
 \* Db 121 TCCCTTAACCCAGG 133  
 RESULT 10  
 ABA5497  
 ID ABA5497 standard; DNA; 171 BP.  
 XX AC ABA5497;  
 XX DT 23-JAN-2002 (first entry)  
 XX DE Probe #13963 for gene expression analysis in human heart cell sample.  
 XX KW Human; gene expression; heart; microarray; vascular system; probe;  
 KW cardiovascular disease; hypertension; cardiac arrhythmia;  
 KW congenital heart disease; ss.  
 XX OS Homo sapiens.  
 XX PN WO200157274-A2.  
 XX  
 RESULT 11  
 AAK16884  
 ID AAK16884 standard; DNA; 171 BP.  
 XX AC AAK16884;  
 XX DT 05-NOV-2001 (first entry)  
 XX DE Human brain-expressed single exon probe SEQ ID NO: 16875.  
 XX KW Human; brain expressed exon; gene expression analysis; probe;  
 KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;  
 KW epilepsy; cancer; ss.  
 XX OS Homo sapiens.  
 XX PN WO200157275-A2.  
 XX

PD 09-AUG-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00667.  
 XX  
 PR 04-FBB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-063236.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-023659.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 DR; 2001-488900/53.  
 XX  
 PT Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human bone marrow -  
 XX  
 PS Example 4; SEQ ID NO: 17211; 650pp + Sequence Listing; English.  
 XX  
 CC The present invention provides a number of single exon nucleic acid  
 CC probes which are derived from genomic sequences expressed in the human  
 CC bone marrow. They can be used to measure gene expression in bone marrow  
 CC samples, which may enable the improved diagnosis and treatment of cancers  
 CC such as lymphoma, leukaemia and myeloma. The present sequence is one of  
 CC the probes of the invention.  
 XX  
 SQ Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;  
 Query Match 6.6%; Score 133; DB 22; Length 171;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-55;  
 Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1352 GGGCAAAGTCCCCATCAAGTGGACGGTCCCTGAAGCATCAACTTGCTCCTTCACCA 1411  
 DB 1 GGGCAAAGTCCCCATCAAGTGGACGGTCCCTGAAGCATCAACTTGCTCCTTCACCA 60  
 QY 1412 TCAAGTCAAGCAGCTGTGCTGTGAGTCAGGCCATGAGATGAGTCAGGCCGA 1471  
 DB 1 TCAAGTCAAGCAGCTGTGCTGTGAGTCAGGCCATGAGATGAGTCAGGCCGA 60  
 QY 1472 TCCCTTACCCAGG 1484  
 DB 121 TCCCTTACCCAGG 133  
 RESULT 13  
 AAI23408 ID AAI23408 standard; DNA; 171 BP.  
 XX  
 AC AAI23408;  
 XX  
 DT 12-OCT-2001 (first entry)  
 DE Probe #13341 for gene expression analysis in human cervical cell sample.  
 XX  
 KW Probe; human; microarray; gene expression; cervical epithelial cell;  
 KW cervical cancer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200157278-A2.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-023659.  
 PR 04-OCT-2000; 2000US-0234263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.

XX	Penn SG,	Hanzel DK,	Chen W,	Rank DR;	DR	WPI; 2001-488897/53.	
XX	DR	Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human cervical epithelial cells -	XX	XX	PT	Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human placenta -	
XX	PT	Claim 25; SEQ ID No 13341; 487pp; English.	XX	XX	PT	Claim 25; SEQ ID No 17414; 654pp; English.	
CC	CC	The present invention relates to single exon nucleic acid probes (SENPs). The present sequence is one such probe. The probes are useful for producing a microarray for predicting, measuring and displaying gene expression in samples derived from human placenta. The probes are useful for antenatal diagnosis of human genetic disorders.	CC	CC	CC	The present invention relates to single exon nucleic acid probes (SENPs). The present sequence is one such probe. The probes are useful for producing a microarray for predicting, measuring and displaying gene expression in samples derived from human placenta. The probes are useful for antenatal diagnosis of human genetic disorders.	
XX	PS	Claim 25; SEQ ID No 13341; 487pp; English.	XX	XX	PS	Claim 25; SEQ ID No 17414; 654pp; English.	
CC	CC	The present invention relates to human single exon nucleic acid probes (SENP). The present sequence is one such probe. The SENPs are derived from human HeLa cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring human gene expression in a sample derived from human cervical epithelial cells. By measuring gene expression, the probes are therefore useful in grading and/or staging diseases of the cervix, notably cervical cancer.	CC	CC	PS	The present invention relates to single exon nucleic acid probes (SENPs). The present sequence is one such probe. The probes are useful for producing a microarray for predicting, measuring and displaying gene expression in samples derived from human placenta. The probes are useful for antenatal diagnosis of human genetic disorders.	
CC	CC	Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.	CC	CC	PS	Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;	
XX	SQ	Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;	XX	XX	Query Match 6.6%; Score 133; DB 22; Length 171; Best Local Similarity 100.0%; Pred. No. 7.1e-55; Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Query Match 6.6%; Score 133; DB 22; Length 171; Best Local Similarity 100.0%; Pred. No. 7.1e-55; Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	13352	GGGCCAAGTCCCCATCAAGTGGACAGTCCTGAAAGCCATCAACTTNGCTCCTACCCA 1411	QY	13352	GGGCCAAGTCCCCATCAAGTGGACAGTCCTGAAAGCCATCAACTTNGCTCCTACCCA 1411	QY	GGGCCAAGTCCCCATCAAGTGGACAGTCCTGAAAGCCATCAACTTNGCTCCTACCCA 60
Db	1	GGGCCAAGTCCCCATCAAGTGGACAGTCCTGAAAGCCATCAACTTNGCTCCTACCCA 60	Db	1	GGGCCAAGTCCCCATCAAGTGGACAGTCCTGAAAGCCATCAACTTNGCTCCTACCCA 60	Db	1412 TCAAGTCAGCTGCTGGCTCTTGTGATGAGATCGTACCTTGATGGAGATGTACCTAGGCCGA 1471
QY	1412	TCAAGTCAGCTGCTGGCTCTTGTGATGAGATCGTACCTTGATGGAGATGTACCTAGGCCGA 1471	QY	1412	TCAAGTCAGCTGCTGGCTCTTGTGATGAGATCGTACCTTGATGGAGATGTACCTAGGCCGA 1471	QY	1412 TCAAGTCAGCTGCTGGCTCTTGTGATGAGATCGTACCTTGATGGAGATGTACCTAGGCCGA 1471
Db	61	TCAAGTCAGCTGCTGGCTCTTGTGATGAGATCGTACCTTGATGGAGATGTACCTAGGCCGA 120	Db	61	TCAAGTCAGCTGCTGGCTCTTGTGATGAGATCGTACCTTGATGGAGATGTACCTAGGCCGA 120	Db	61 TCAAGTCAGCTGCTGGCTCTTGTGATGAGATGTACCTAGGCCGA 120
QY	1472	TCCCTTAACCCAGG 1484	QY	1472	TCCCTTAACCCAGG 1484	QY	1472 TCCCTTAACCCAGG 1484
Db	121	TCCCTTAACCCAGG 133	Db	121	TCCCTTAACCCAGG 133	Db	121 TCCCTTAACCCAGG 133
AC	AC		AC	AC		AC	
XX	XX		XX	XX		XX	
DT	17-OCT-2001	(first entry)	DE	AAI09035	standard; DNA; 171 BP.	DE	#9026 used to measure gene expression in human breast sample.
XX	XX		XX	XX		XX	
DE	Probe #17414 used to measure gene expression in human placenta sample.		KW	KW	Probe; human; breast disease; breast cancer; development disorder; ss; non-carcinoma tumour.	KW	
XX			XX	XX		XX	
XX	Probe; microarray; human; placenta; antenatal diagnosis; genetic disorder; ss.		OS	OS	Homo sapiens.	OS	
XX			XX	XX		XX	
OS	Homo sapiens.		PR	PR	Probe #9026 used to measure gene expression in human breast sample.	PR	
XX			PR	PR		PR	
XX	WO200157272-A2.		PR	PR		PR	
XX			PR	PR		PR	
XX	09-AUG-2001.		PR	PR		PR	
XX	30-JAN-2001; 2001WO-US00663.		PR	PR		PR	
PP			PR	PR		PR	
XX			PR	PR		PR	
PR	04-FEB-2000; 2000US-0180312.		PR	PR		PR	
PR	26-MAY-2000; 2000US-0207456.		PR	PR		PR	
PR	30-JUN-2000; 2000US-0608408.		PR	PR		PR	
PR	03-AUG-2000; 2000US-0632366.		PR	PR		PR	
PR	21-SEP-2000; 2000US-0234687.		PR	PR		PR	
PR	27-SEP-2000; 2000US-0236359.		PR	PR		PR	
PR	04-OCT-2000; 2000US-0024263.		PR	PR		PR	
XX			PA	PA		PA	
PA	(MOLE-) MOLECULAR DYNAMICS INC.		XX	XX		XX	
XX			PI	Penn SG, Hanzel DK, Chen W, Rank DR;		PI	
PI	Penn SG, Hanzel DK, Chen W, Rank DR;		XX	XX		XX	
XX			PS	Claim 25; SEQ ID No 9026; 322pp; English.		PS	
CC	The present invention relates to novel single exon nucleic acid probes.		CC	CC		CC	



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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

OM nucleic - nucleic search, using sw model		Result No.	Score	Query Match Length	DB ID	Description
Run on:	July 4, 2003, 00:38:48 ; Search time 5238 Seconds (without alignments)	1	2015	100.0	2015	AX334501 Sequence
Title:	US-10-007-010-3	2	2015	100.0	2015	M16591 Human hemop
Perfect score:	2015	3	1606	79.7	2044	AK01435 Homo sapi
Sequence:	1 cgaggcacggaaatggatggg.....ataataatgcacgttccatc 2015	4	1555	77.2	2105	AK02632 Homo sapi
Scoring table:	OLIGO_NUC GapP 60.0 , GapExt 60.0	5	1552	77.0	1926	M16592 Human hemop
Searched:	2054640 seqs, 14551402878 residues	6	423	4507	9	X58743 H.sapiens H
Word size :	0	7	303	15.0	111694	AL049519 Human DNA
Total number of hits satisfying chosen parameters:	4109280	8	274	13.6	333	G06122 human STS W
Minimum DB seq length: 0		9	182	9.0	5268	X58741 H.sapiens H
Maximum DB seq length: 2000000000		10	157	7.8	2167	X58742 H.sapiens H
Post-processing: Listing first 45 summaries		11	112	5.6	25010	AL353092 Human DNA
Database :	GenEmbl:*	12	107	5.3	1515	AJ320181 Macaca fa
	1: gb_ba:*	13	82	4.1	366	G25924 human STS E
	2: gb_htg:*	14	77	3.8	958	M73233 Human hemop
	3: gb_in:*	15	76	3.8	10348	AB071605 Homo sapi
	4: gb_cm:*	16	68	3.4	1911	AX41935 Sequence
	5: gb_ov:*	17	68	3.4	1911	M83666 Rattus norv
	6: gb_pat:*	18	68	3.4	1911	S74141 hct=tyrosin
	7: gb_ph:*	19	68	3.4	1940	X62345 R.rattus hc
	8: gb_pl:*	20	65	3.2	1926	M16592 Human hemop
	9: gb_pr:*	21	56	2.8	86196	AL552046 Human DNA
	10: gb_ro:*	22	56	2.8	169913	AC031980 Homo sapi
	11: gb_ss:*	23	47	2.3	1960	Y00487 Mouse hck g
	12: gb_sy:*	24	47	2.3	2002	BC010478 Mus muscu
	13: gb_un:*	25	47	2.3	2104	AC078911 Mus muscu
	14: gb_yt:*	26	47	2.3	200329	AL807380
	15: em_ba:*	27	47	2.3	208718	AC078911 Mus muscu
	16: em_fun:*	28	32	1.6	2298	AF321110 Salmo sal
	17: em_hum:*	29	32	1.6	211607	AC094844 Rattus no
	18: em_in:*	30	30	1.5	145512	AC087618 Homo sapi
	19: em_mu:*	31	30	1.5	191622	AC022239 Homo sapi
	20: em_om:*	32	29	1.4	211607	AL031189 H.sapiens
	21: em_or:*	33	29	1.4	1965	AL832875 Homo sapi
	22: em_ov:*	34	29	1.4	2210	BC007371 Homo sapi
	23: em_pat:*	35	29	1.4	2235	233998 H.sapiens m
	24: em_ph:*	36	29	1.4	2251	BC032413 Homo sapi
	25: em_pl:*	37	29	1.4	2608	S76617 balk=protein
	26: em_ro:*	38	29	1.4	211607	AC094844 Rattus no
	27: em_sts:*	39	28	1.4	15158	M73321 Human Lyn B
	28: em_un:*	40	28	1.4	2298	M16038 Human lyn m
	29: em_vi:*	41	28	1.4	184349	AC046176 Homo sapi
	30: em_htg_hum:*	42	27	1.3	180424	AC090496 Mus muscu
	31: em_htg_inv:*	43	26	1.3	72	J02351 Rous sarcom
	32: em_htg_other:*	44	26	1.3	1016	V01167 Avian sarco
	33: em_htg_mus:*	45	26	1.3	1578	S37068 src (tsupr)

## ALIGNMENTS

RESULT 1	AX334501	2015 bp	DNA	linear	PAT 09-JAN-2002
LOCUS	Sequence 5010 from Patent WO0194629.				
DEFINITION					
ACCESSION	AX334501				
VERSION	AX334501.1				
KEYWORDS	GI:18125220				
SOURCE	Human				
ORGANISM	Homo sapiens				
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
REFERENCE 1	Young, P.E., Augustus M., Carter, K.C., Ebner, R., Endress, G.,				
AUTHORS Horrigan, S., Soppet, D.R. and Weaver, Z.					
TITLE Cancer gene determination and therapeutic screening using signature					

Pre. No. is the number of results predicted by chance to have a

JOURNAL	gene sets	Patent: WO 0194629-A 5010 13-DEC-2001;	901
FEATURES	Avalon Pharmaceuticals (US)	Location/Qualifiers	901
source	1. 2015 /organism="Homo sapiens" /db_xref="taxon:9605"	DB 6; Length 2015; Best Local Similarity 100.0%; Pred. No. 0; Matches 2015; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy
Qy	1 CGGAGGCACGGAAAGATCAGGAAAGATGATCAAGGGATGATGAAGGTGAAAGGGAGATGA 60	Db	Db
Db	1 CGGAGGCACGGAAAGATCAGGAAAGATGATCAAGGGATGATGAAGGTGAAAGGGAGATGA 60	Qy	Qy
Qy	61 AGACGATGACGATGATGCTCTGAGGGGACTCTAGGGCTAGCTGGGGCGCTC 120	Db	Db
Db	61 AGACGATGACGACGATGATGCTCTGAGGGACCTCAGGGCTGGCGACCTGGGGCGCTC 120	Qy	Qy
Qy	121 AAGCTGGAGGATTCGGCTTGCCGGAGACGGAGGGCCAGGGATGGGTCGATG 180	Db	Db
Db	121 AAGCTGGAGGATTCGGCTTGCCGGAGACGGAGGGCCAGGGATGGGTCGATG 180	Qy	Qy
Qy	181 AAGTCCCAAGTTCTCAGGTTGGGCAATACTCTCAAAGCTAACCGGCCAAC 240	Db	Db
Db	181 AAGTCCCAAGTTCTCAGGTTGGGCAATACTCTCAAAGCTAACCGGCCAAC 240	Qy	Qy
Qy	241 CCACACTGTCCTGTGPACGTGCTGGATCCACATCCACCATCAAGCGGGCTTAATAGC 300	Db	Db
Db	241 CCACACTGTCCTGTGPACGTGCTGGATCCACATCCACCATCAAGCGGGCTTAATAGC 300	Qy	Qy
Qy	301 CACAACGGCACACACCAACGGGATCAGGAGGAGCTCTAGGACATCATGTCGGCT 360	Db	Db
Db	301 CACAACGGCACACACCAACGGGATCAGGAGGAGCTCTAGGACATCATGTCGGCT 360	Qy	Qy
Qy	361 CTGTGATTACGAGGECATTACCCAGAAGACCTCAGTTCCAGAAGGGGACCAGATG 420	Db	Db
Db	361 CTGTGATTACGAGGECATTACCCAGAAGACCTCAGTTCCAGAAGGGGACCAGATG 420	Qy	Qy
Qy	421 GTGGTCTCTAGGAAATC CGGGGAGTGTGGAAAGGCTCGATCCCTGGCACCCGGAAAGGAG 480	Db	Db
Db	421 GTGGTCTCTAGGAAATC CGGGGAGTGTGGAAAGGCTCGATCCCTGGCACCCGGAAAGGAG 480	Qy	Qy
Qy	481 GGCTACATCCCAGAACATACTATGTCGCCGGTTGACTCTGGAGACAGGAGTGGTT 540	Db	Db
Db	481 GGCTACATCCCAGAACATACTATGTCGCCGGTTGACTCTGGAGACAGGAGTGGTT 540	Qy	Qy
Qy	541 TTCAGGGCATCAGCGGAAGGACGCCAACCTGGTGGTCCCGCAACATGGTG 600	Db	Db
Db	541 TTCAGGGCATCAGCGGAAGGACGCCAACCTGGTGGTCCCGCAACATGGTG 600	Qy	Qy
Qy	601 GGCTCCCTCATGATCGGGATAGCGGAGGCCAACAGGGCTCTGGTGGTCCGGAA 660	Db	Db
Db	601 GGCTCCCTCATGATCGGGATAGCGGAGGCCAACAGGGCTCTGGTGGTCCGGAA 660	Qy	Qy
Qy	661 GACTAGACCCCTGGAGGAGATACTGAAATTAAGATCCGGGACTCCGGGACAC 720	Db	Db
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Qy	721 GGGGCTCTCATCATCCCGAAGGCCACCTTCAAGCACCTGCGGAGCTGGGACAC 780	Db	Db
Db	721 GGGGCTCTCATCATCCCGAAGGCCACCTTCAAGCACCTGCGGAGCTGGGACAC 780	Qy	Qy
Qy	781 TACAAAGGGAAAGCAGGGCTCTGGAGAAACTGTGGCTGGCTGGATGTCTCCAAAG 840	Db	Db
Db	781 TACAAAGGGAAAGCAGGGCTCTGGAGAAACTGTGGCTGGCTGGATGTCTCCAAAG 840	Qy	Qy
Qy	841 CCCAGAAGCCTTGGGAAAGATGCCCTGGGAGATCCCTCAAGCTGGAG 900	Db	Db
Db	841 CCCAGAAGCCTTGGGAAAGATGCCCTGGGAGATCCCTCAAGCTGGAG 900	1921 ATGGTGGATTTAGTTACGCTGGATTAGTTACGCTGGATTAGTGAATGA 1980	1921 ATGGTGGATTTAGTTACGCTGGATTAGTTACGCTGGATTAGTGAATGA 1980

QY	1981	ATATTAAATAAAGATATAATGCAAGTCCTAACG 2015	CCACACTGCTGTGTTACGTGGATCCACATCAGGGGCTTAATAGC 300
Db	1981	ATATTAAATAAAGATATAATGCAAGTCCTAACG 2015	CCACACTGCTGTGTTACGTGGATCCACATCAGGGGCTTAATAGC 300
<b>RESULT 2</b>			
HUHICKA	HUMHCKA	2015 bp mRNA linear PRI 08-NOV-1994	QY
LOCUS	Human hemopoietic cell protein-tyrosine kinase (HCK) gene, complete cds, clone lambda-a2/1a.	Db	QY
DEFINITION		QY	
ACCESSION	M16591	GI:183911	Db
VERSION	1	protein kinase; protein-tyrosine kinase.	QY
KEYWORDS		Human hemopoietic cell, cDNA to mRNA, clone lambda-a2/1a.	Db
SOURCE		QY	
ORGANISM	Homo sapiens	Homo sapiens	Db
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		QY	
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		Db	
REFERENCE	1 (bases 1 to 2015)	Quintrell,N., Lebo,R., Varmus,H., Bishop,J.M., Pettenati,M.J., Le Beau,M.M., Diaz,M.O., and Rowley,J.D.	QY
AUTHORS		Identification of a human gene (HCK) that encodes a protein-tyrosine kinase and is expressed in hematopoietic cells	Db
TITLE		QY	
JOURNAL	Mol. Cell. Biol.	7 (6), 2267-2275 (1987)	Db
MEDLINE	87257942		QY
PUBMED	3496523		Db
FEATURES	Location/Qualifiers		QY
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	/db_xref="Taxon_9606"		Db
gene	/map="20q11-q12"		QY
mRNA	/gene="HCK"		Db
	<1..2015		QY
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	.169..186		QY
	/gene="HCK"		Db
	/note="protein-tyrosine kinase"		QY
	/codon_start=1		Db
	/protein_id="AA52643..1"		QY
	/db_xref="GT:306832"		Db
	/db_xref="GB:GO-119..303"		QY
	/translation="MCSMKSFPLQVGNTFKEETISASPHCPVYDPISTIKPONPSNNSNTIPGRACEDSIIVVAYDEKHHELLSFOLQDGQWVLESEPGWKAHSIYSKIGYIPSNVYARVDSELEEFKGISRSRKDAPRQLQPNMGLSPMIROSETKTSYSLSTYDDERGDVKHKTIRDINGGYIISRSRSTLQLEIADHKKGNGDLCORLSVPCMSKKEQPKWDAEIPRESLKEKLLKGAGTQTEWMATKNTKVATKTMFKPSMSEWAELAENYKMTLOHDKLKHLHAVNTYKUQTEWMATKSLDDELKDEGSKQPLKJDFSAQIAQSMFLQRNTIHDRAANILVSLVCRJADGLARYTDENEYTRKZCFPKIWTVAPEAINFGSTIJKSDWSFQILLMBIVTRIPGMSPNEVIRALERSYRMPRPNCPEELNMIMCMWKNPKEERTFEYIQSVLDDFTYATESQQQQP"	Db	
BASE COUNT	512 a	510 C 580 g 383 t	QY
ORIGIN	130 bp upstream of BamHI site; chromosome 20q11-q12.		QY
Query Match	100.0%	Score 2015; DB 9; Length 2015;	QY
Best Local Similarity	100.0%	Pre. No. 0;	Db
Matches 2015; Conservative	0;	Mismatches 0; Indels 0; Gaps 0;	QY
QY	1	CGGAGGCACGGAAGATGAGGAATGATCAGGGATGATGAGGTGAAGAGGGAGATGA 60	Db
Db	1	CGGAGGCACGGAAGATGAGGAATGATCAGGGATGATGAGGTGAAGAGGGAGATGA 60	QY
QY	61	AGACATGATGAGCAGATGGCTCTGGGGACCTCAGGGCTGGCGAGCTGGGGCCCTC 120	Db
Db	61	AGACATGATGAGCAGATGGCTCTGGGGACCTCAGGGCTGGCGAGCTGGGGCCCTC 120	QY
QY	181	AAGTCACAATTCCTCAGGCAAGGCAATACATTCTCAAACACTGAACCCGCCAG 240	Db
Db	121	AAGTCACAATTCCTCAGGCAAGGCAATACATTCTCAAACACTGAACCCGCCAG 180	QY
Db	121	AAGTCACAATTCCTCAGGCAAGGCAATACATTCTCAAACACTGAACCCGCCAG 180	Db
QY	121	AAGTCACAATTCCTCAGGCAAGGCAATACATTCTCAAACACTGAACCCGCCAG 180	QY
Db	1261	AACATCTGGTGTCTGATCCCTGACTTGCTGAGTGTGACTTGGCTGGGGCTC 1320	QY
Db	1261	AACATCTGGTGTCTGATCCCTGACTTGCTGAGTGTGACTTGGCTGGGGCTC 1320	QY
Db	1261	AACATCTGGTGTCTGATCCCTGACTTGCTGAGTGTGACTTGGCTGGGGCTC 1320	QY

REMARK	COMMENT
REFERENCE	BC014435
LOCUS	BC014435
DEFINITION	Homo sapiens, clone MGC:22922 IMAGE:4855747, mRNA, complete cds.
ACCESSION	BC014435
VERSION	BC014435.1
KEYWORDS	MGC.
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
RESULT	3
REFERENCE	BC014435
LOCUS	BC014435
DEFINITION	Homo sapiens, clone MGC:22922 IMAGE:4855747, mRNA, complete cds.
ACCESSION	BC014435
VERSION	BC014435.1
KEYWORDS	MGC.
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REMARK	1 (bases 1 to 2044)
COMMENT	Stratberg, R.
REMARK	Direct Submission (17-SEP-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK	NIH MGC Project URL: <a href="http://mgc.nci.nih.gov">http://mgc.nci.nih.gov</a>
REMARK	Contact: MGC help desk
REMARK	Tissue Procurement: Louis Staudt
REMARK	CDNA Library Preparation: Rubin Laboratory
REMARK	CDNA Library Arrayed by: I.M.A.G.E. Consortium (LNL)

Db	556	TTCATCAAGGCATAGCGGAAAGGACCCAGAGCGGAACACTGGGTCCGGCACATG	615	QY	1678	CAGCCATGATAGGGAGGACCCAGGGCAGGG-CAGGGGGGCCAGCTGGTGGCCAGGGT	1736
QY	598	CTGGCTCCTCATGATCGGGATAAGGAGAACACTAAGGAACTTGTGCGTG	657	Db	1696	CAGCCATGATAGGGAGGACCCAGGGCAGGGCAGGGTGGCCAGGT	1755
Db	616	CTGGCTCCTCATGATCGGGATAAGGAGAACACTTGTGCGTG	675	QY	1737	GGCTCCAGCACATCGCCAGGGCACACCCCTCTACTCCAGACCCACCTTG	1796
QY	658	CGAGACTACGACCTGGCAGGAGAACCTTGTGAACTTACAAGTCCGACCTGGAC	717	Db	1756	GGCTCCAGCACATCGCCAGGGCACACCCCTCTACTCCAGACCCACCTTG	1815
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QY	718	AACGGGGCTCTACATACTCCCGAGGACCTTGTGAACTTGTGACCTGGGAC	777	Db	1816	CTTCAGCCAGATTCCTCATGTCAGGGTAGGTGGACTGGAAATCTCTTTTG	1875
Db	736	AACGGGGCTCTACATACTCCCGAGGACCTTGTGAACTTGTGACCTGGGAC	795	QY	1857	ACTCTGCAATCACAATCTGACATTCTAGGAGGCCCAAASTGATAATTCTTCCC	1916
QY	778	CACTACAAGAAGGGAAAGGACGGCTCTGCCAGAAACTGGGTGGCTGATGTTCC	837	Db	1876	ACTCTGCAATCACAATCTGACATTCTAGGAGGCCCAAASTGATAATTCTTCCC	1935
Db	796	CACTACAAGAAGGGAAAGACGGCTCTGCCAGAACTGGGTGGCTGATGTTCC	855	QY	1917	TGAAATGGTGGATTAGTTAGTTACAGCTGTGATTTGGAAAGGGAAACTTC	1976
QY	838	AAGCCCCAGAAGGCTTGGGAGAAAAGANGCCGGAGATCCCTCAAGCTG	897	Db	1936	TGAAATGGTGGATTAGTTAGTTACAGCTGTGATTTGGAAAGGGAAACTTC	1995
Db	856	AAGCCCCAGAAGGCTTGGGAGAAAAGATGCCGAACTTCAACAGCAC	957	QY	1977	ATGAAATTAATAAAAGATAATAATGC	2005
QY	898	GAGAGAAACTTGGGAGTTGGGAGTGGTGTGAGTGGGAGTGGGAGTGGGAG	957	Db	1996	ATGAAATTAATAAAAGATAATAATGC	2024
Db	916	GAGAGAAACTTGGGAGTGGGAGTTGGGAGTGGGAGTGGGAGTGGGAGTGGC	975	QY	RESULT 4		
	958	ACCRAGTGGCAGTGAAGAGCATGAAACCAGGGAGATGGTGGAGGCCCTTCGGCA	1017	AK02432	AK026432	AK026432	
Db	976	ACCAAGGTGGCAGTGAAGAGCATGAAACCAGGGAGATGGTGGAGGCCCTTCGGCA	1035	LOCUS	Hom sapiens cDNA:	FLJ22779	2105 bp
QY	1018	GAGSCCAACGTGTGAAACTCTGCACTGACAAGCTGCAACATTCTATGCCGTGTC	1077	DEFINITION	Hom sapiens	fl	clone KAI1741.
Db	1036	GAGSCCAACGTGTGAAACTCTGCACTGACAAGCTGCAACCTCTATGCCGTGTC	1095	ACCESSION	AK026432	GI:10439295	
QY	1078	ACCAAGGAGCCATCATCATCATGACAAGCTGCAACTCATGACTCTCACGCCAG	1137	KEYWORDS	Oligo capping; fis	(full insert sequence)	
Db	1096	ACCAAGGAGCCATCATCATCATGACAAGCTGCAACTCTATGCCGTGTC	1155	SOURCE	Hom sapiens	Hom sapiens	
QY	1138	CITCAAAGTGTAGGGAGGAAACCATCATGACAAGCTGCAACTCTCACGCCAG	1197	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
Db	1156	CITCAAAGTGTAGGGAGGAAACCATCATGACAAGCTGCAACTCTCACGCCAG	1215	REFERENCE	Kawakami,T., Noguchi,S., Itoh,T., Shigeta,K., Senba,T.,		
QY	1198	ATTCGAGAAGGCTTCACTGAGCAGGAACCTCGGAGCTCGGAGCT	1257	AUTHORS	Matsumura,K., Nakajima,Y., Mizuno,T., Morinaga,A.,		
Db	1216	ATTCGAGAAGGCTTCACTGAGCAGGAACCTCGGAGCTCGGAGCT	1275	TITLE	Fujiwara,T., Ono,T., Yamada,K., Fujii,Y., Ozaki,K., Hirao,M.,		
QY	1258	GCCAACATCTGGCTCTGCACTCCGGTGTGACTTGTGGCTGCCGG	1317	JOURNAL	Ohmori,Y., Ota,T., Suzuki,Y., Obayashi,M., Nishi,T., Shibahara,T.,		
Db	1276	GCCAACATCTGGCTCTGCACTCCGGTGTGACTTGTGGCTGCCGG	1335	COMMENT	Tanaka,T., Nakamura,Y., Isogai,T. and Sugano,S.		
QY	1318	GTCATGGGAAACGAGTACAGGAGAACCTACATCCGGTGTGGAAAGGCCAA	1377	FEATURES	NEDO human cDNA sequencing project		
Db	1336	GTCATGGGAAACGAGTACAGGAGAACCTACATCCGGTGTGGAAAGGCCAA	1395	Source	unpublished		
QY	1378	GTCCTGTAAGCCATCAACTTGGCTTCACTACATCAAGTCACTGGCT	1437	1 (sites)	2 (bases 1 to 2105)		
Db	1396	GTCCTGTAAGCCATCAACTTGGCTTCACTACATCAAGTCACTGGCT	1455	AUTHORS	Sugano,S., Suzuki,Y., Ota,T., Obayashi,M., Nishi,T., Isogai,T.,		
QY	1438	ATCCTGCTGATGGAGATGTCACCTACGGGGATCCCTACCCAGGGATGTC	1497	TITLE	Shibahara,T., Tanaka,T. and Nakamura,Y.		
Db	1456	ATCCTGCTGATGGAGATGTCACCTACGGGGATCCCTACCCAGGGATGTC	1515	JOURNAL	Direct Submission		
QY	1498	GAAGTGAATCCGGAGCTTGTGATGGCTTCACTACATCAAGTCACTGGCT	1557	COMMENT	(29-AUG-2000) Sumio Sugano, Institute of Medical Science,		
Db	1516	GAAGTGAATCCGGAGCTTGTGATGGCTTCACTACATCAAGTCACTGGCT	1575	FEATURES	University of Tokyo, Laboratory of Genome Structure Analysis, Human		
QY	1558	GAGCTCTAACATCATGATGGCTTCACTACGGGATCTGGGAGGAGCTTC	1617	Source	Genome Center, Shirokane-Itai, 4-6-1, Minato-ku, Tokyo 108-8639,		
Db	1576	GAGCTCTAACATCATGATGGCTTCACTACGGGGATCTGGGAGGAGCTTC	1635	1.	Japan (E-mail:cnal@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286, Fax:81-3-5449-5416)		
QY	1618	GAATACATCCAGTGTGCTGGACTCTACACGGCCACAGAGCCAGTACCAACAG	1677	COMMENT	NEDO human cDNA sequencing project supported by Ministry of International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of		
Db	1636	GAATACATCCAGTGTGCTGGACTCTACACGGCCACAGAGCCAGTACCAACAG	1695	FEATURES	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).		
			Location/Qualifiers	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			
			Organization	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).			
			Organism	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			
			taxon	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).			
			clone	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			
			type	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).			
			clonetax	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			
			clonetax	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).			
			note	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			
			cloning vector	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).			
			vector	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			
			protein product	Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).			
			codon_start	International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing: Department of			

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BASE COUNT	541	a	585	c	587	g	392	t	
ORIGIN									
Query Match	77.2%	Score	1555;	DB	9;	Length	2105;		
Best Local Similarity	99.8%	Pred.	No.	0;					
Matches	1826;	Conservative	0;	Mismatches	3;	Indels	1;	Gaps	1;
Db									
Qy	178	ATGAAGTCCAAAGTTCCTCAGGTGGAGCCAATACATTCCTCAAAGAACCGGCC	237	Db					
Db	244	ATGAAGTCCAAAGTTCCTCAGGTGGAGCCAATACATTCCTCAAAGAACCGGCC	303	Qy					
Qy	238	AGCCCCACACTGTCTGTGTGACCGTCCGGATCCTACCATCAAGCCGGGCCTATA	297	Db					
Db	304	AGCCCCACACTGTCTGTGTGACCGTCCGGATCCTACCATCAAGCCGGGCCTATA	363	Qy					
Qy	298	AGCCACACACAGCACACACAGGAACTACACAGGAACTACAGGAGCTCTAGGA	357	Db					
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Qy	418	ATGGTGTTCTTAGGAACTACCGGGAGCTGGTGGAAAGCTGATCCGATGCCAC	477	Db					
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Qy	478	GAGGCTACATCCCAGAACTATGTCGGGAACTACACAGGAACTACAGGAGCT	537	Db					
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Qy	538	TTTTCAAGGCACTACGGCGAAAGGACGAACTGCTGGTCCGGCAAAATG	597	Db					
Db	604	TTTTCAAGGCACTACGGCGAAAGGACGAACTGCTGGTCCGGCAAAATG	663	Qy					
Qy	598	CAGGGCTCTCAGATCGGGAGTAGGGAGACCTAAGGAAGCTACTCTTGT	657	Db					
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Qy	658	CGAGACTACGACCCCTCGGGAGGAGATACCGTGAAGAACATTACAGATC	717	Db					
Db	724	CGAGACTACGACCCCTCGGGAGGAGATACCGTGAAGAACATTACAGATC	783	Qy					
Qy	718	AACGGGGCCTCTACATATCCTCCCGAACGACCTCTGCAAGGACTCTG	777	Db					
Db	784	AACGGGGCCTCTACATATCCTCCCGAACGACCTCTGCAAGGACTCTG	843	Qy					
Qy	778	CACTACAGAAGGGCAAGGCTTGGGAGAAAAGATGCCCTGGGAAATCCCT	897	Db					
Db	844	CACTACAGAAGGGCAAGGCTTGGGAAACTCTGGCAAGAACTCTGG	903	Qy					
Qy	838	AAGCCCCAGAAGGCTTGGGAGAAAAGATGCCCTGGGAAATCCCTCAAGCT	897	Db					
Db	904	AAGCCCCAGAAGGCTTGGGAGAAAAGATGCCCTGGGAAATCCCTCAAGCT	963	Qy					
Qy	98	GAGAGAAACTTGGAGCTGGGAGATGCTGGGAGAACTCTGGCAACAGAC	957	Db					
Db	964	GAGAGAAACTTGGAGCTGGGAGAACTCTGGCAACAGAC	1023	RESULT	5				
Qy	958	ACCAAGTGGAGCTGGAGATGAGCAAGGCAACTCTGGGAGATCTGGCA	1017	HUMHCKB	1926	bp	mRNA	linear	PRI 08-NOV-1994
Db	1024	ACCAAGTGGCACTGGGAGCTGGAGATGAGCAACTCTGGCA	1083	LOCUS					

DEFINITION	Human hematopoietic cell protein-tyrosine kinase (HCK) gene, complete cds, clone HK24.	Qy	538 TTTTCAGGGCATCGCCGAGGAGCAGGGCAACTTGCTGCCAACATG 597
ACCESSION	M16592	Db	445 TTTCAGGGCATCGCCGAGGAGCAGGGCAACTTGCTGCCAACATG 504
VERSION	1 GI:183913	Qy	598 CTGGCTCCCTCATGATCCGGTAGCGACCTAAAGGAGCTACTCTTGTGCGTG 657
KEYWORDS	kinase; protein-tyrosine kinase.	Db	505 CTGGCTCCCTCATGATCCGGTAGCGACCTAAAGGAGCTACTCTTGTGCGTG 564
SOURCE	Human mitogen-stimulated leukocyte, cDNA to mRNA, clone HK24.	Qy	658 CGAGACTGACCCCTGGCAGGGAGATACCGTAAACATTAGAGTCGGACCTGGAC 717
ORGANISM	Homo sapiens	Db	565 CGAGACTGACCCCTGGCAGGGAGATACCGTAAACATTAGAGTCGGACCTGGAC 624
Mammalia	Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;	Qy	661 CGAGACTGACCCCTGGCAGGGAGATACCGTAAACATTAGAGTCGGACCTGGAC 624
REFERENCE	1 (bases 1 to 1916)	Db	718 AACGGGGCTTCACATATCCCCCGAAGGACCTTCAGCACCTGCAGGACTGGTGGAC 777
AUTHORS	Ziegler,S.F., March,J.D., Lewis,D.B. and Perlmuter,R.M.	Qy	625 AACGGGGCTTCACATATCCCCCGAAGGACCTTCAGCACCTGCAGGACTGGTGGAC 684
TITLE	Newly protein-tyrosine kinase gene (hck) preferentially expressed in cells of hematopoietic origin	Db	779 CACTACAGAAGGGAAAGCAGGGCTCTGCCAGAAACTTGTGCGCTGATGCTTCC 837
JOURNAL	Mol. Cell. Biol. 7 (6), 2276-2285 (1987)	Qy	685 CACTACAGAAGGGAAAGCAGGGCTCTGCCAGAAACTTGTGCGCTGATGCTTCC 744
MEDLINE	87227943	Db	838 AACCCCGAAGGCCCTGGAGAAAGATCCCTGGAGATCCCGGGAAATCCCTAACAGCTG 897
PUBMED	3453117	gene	745 AAGCCCAAAGGCTTGGAGAAAGATCCCTGGAGATCCCTGGAGATCCCTAACAGCTG 804
FEATURES	Location/Qualifiers	mrna	898 GAGAGAAACTTGAGCCTGGGAGTTGGGAAGATCTGGATGCCAACCTAACAAAGCAC 957
source	1..1926	product="HCK mRNA"	805 GAGAGAAACTTGAGCCTGGGAGTTGGAGATCTGGATGCCAACCTAACAAAGCAC 864
/organism="Homo sapiens"		CDS	806 ACCAGGTGGCAGTGAAGCAGGGAGATGGCTCTCCCTGGGCA 1017
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/map="20s11-q12"		<1..1926	1018 GAGGCAAAGCTGAGTAAACTCTGAGCATGAAAGCTGGTCAAACTCATGGGTGTC 1077
gene		/product="HCK mRNA"	925 GAGGCAAAGTGTAGAAACTCTGGAGTGAAGCTGGTCAAACTCATGGGTGTC 984
mrna		/product="HCK mRNA"	1078 ACCAGGAGCCCATCTACATCATCACCGGAGTTCATGCCAAAGGAACTTGTGACTTT 1137
CDS		/note="HCK"	985 ACCAGGAGCCCATCTACATCATCACCGGAGTTCATGCCAAAGGAACTTGTGACTTT 1044
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KEGIPDPROGDTVKHYKTRTLONGGYFVSPLSTEFLQELDHYKGNDGLCQKLSV		LSVRYDPROGDTVKHYKTRTLONGGYFVSPLSTEFLQELDHYKGNDGLCQKLSV	1165 GCACACATCTGGCTCTGATCCCTGGTGTAGATGCTGACTCTGGCTGGCG 1224
PCMSKKPQREWEKAQWIRESLKLEKKAGQFGEWMMANKHTKVAYKTMVPGSM		PKLIDESQTAEGMAFIERNYIHDRLRANILYSSAUVCKTADFGIAVTFEPITLMEYNTKVA	1318 GTCATGTGAGCAACGACTACAGCGCTCTGGATCCCTGGTGTAGATGCTGACTCTGGCTGGCG 1377
SVEAFIAENAVMKTLQHDILVLUHVFTPELITEMAKSGDLFURSKDESKQPL		RGYRNPRENCPPELYNNIMRNCRWNRPERPRPTFYIQSLLDDFTATESQYQQP"	1225 GTCATGTGAGCAACGACTACAGCGCTCTGGATCCCTGGTGTAGATGCTGACTCTGGCTGGCG 1284
PLKIDESQTAEGMAFIERNYIHDRLRANILYSSAUVCKTADFGIAVTFEPITLMEYNTKVA		1378 GCTCTGGAGCCATCAACTTGTGCTCTGATCCATCACTGAGCTGGCTTGTG 1437	
RGYRNPRENCPPELYNNIMRNCRWNRPERPRPTFYIQSLLDDFTATESQYQQP"		1285 GCTCTGGAGCCATCAACTTGTGCTCTGATCCATCACTGAGCTGGCTTGTG 1344	
BASE COUNT	1 bp upstream of EcorI site: chromosome 20q11-q12.	Query Match	1438 ATCCCTGCTGATGAGATGCTGACCTACGCGGATCCCTGGATCCATGAGTGG 1497
ORIGIN		Best Local Similarity	1225 GTCATGTGAGCAACGACTACAGCGCTCTGGATCCCTGGTGTAGATGCTGACTCTGGCTGGCG 1284
	77.0%	Score: 1552; DB: 9; Length: 1926;	1378 GCTCTGGAGCCATCAACTTGTGCTCTGATCCATCACTGAGCTGGCTTGTG 1437
	0.0%	Pred. No: 0; Mismatches 0; Indels 0; Gaps 0;	1285 GCTCTGGAGCCATCAACTTGTGCTCTGATCCATCACTGAGCTGGCTTGTG 1344
Matches 1552;	Conservative		1318 GTCATGTGAGCAACGACTACAGCGCTCTGGATCCCTGGTGTAGATGCTGACTCTGGCTGGCG 1377
Matches 1552;			1225 GTCATGTGAGCAACGACTACAGCGCTCTGGATCCCTGGTGTAGATGCTGACTCTGGCTGGCG 1284
Qy	178 ATGAACTCCAAGTTCCCTCAGGTCGGAGCAATACTTCTCAAAACTGAAACCAAGCGCC	Db	1345 ATCCCTGCTGATGAGATGCTGACCTACGCGGATCCCTGGATCCATGAGTGG 1404
	237	Qy	1346 GAGCTCTACACATCATGAGCTGGCTTACCCAGGATCTACGGGATCTAACCCCT 1404
Db	85 ATGAACTCCAAGTTCCCTCAGGTCGGAGCAATACTTCTCAAAACTGAAACCAAGCGCC	Db	1498 GAAGTGTAGCCGAGCTCTGGAGCTGATCCGGATGCCCTGGCTTACGGCTGGCGACCTTC 1557
	144	Qy	1405 GAAGTGTAGCCGAGCTGGCTTACCCAGGATCTACGGGATCTAACCCCT 1464
Db	205 AGCCACACAGCACACAGCAATCTGGAGGCAATCTGGAGCATCATCTGGTGT	Db	1558 GAGCTCTACACATCATGAGCTGGCTTACCCAGGATCTAACCCCT 1617
	264	Qy	1418 ATGGGTCTCTAGGAACTGCTGGAGATCCGGGATCTGGCTGAGCTGGCTGAGCTGG 537
Db	358 GCCTGTATGATTAGCAGGCCATTCAACCAAGAACCTCACTTCAGAAGGGGACCAG	Db	1465 GAGCTCTACACATCATGAGCTGGCTTACCCAGGATCTAACCCCT 1524
	417	Qy	1425 ATGGGTCTCTAGGAACTGCTGGAGATCCGGGATCTGGCTGAGCTGGCTGAGCTGG 444
Db	265 GCCCTGTATGATTAGCAGGCCATTCAACCAAGAACCTCACTTCAGAAGGGGACCAG	Qy	1618 GATAACATCCAGGAGTGTGCTGGATGACTCTACAGGCCAACAGAGGCAACAG 1677
	324		
Db	325 ATGGGTCTCTAGGAACTGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGG 384		
	478 GAGGCTACATCCAGAACACTATGTCGCCCCGCTGGTACTCTGGCTGAGCTGGCTGAGCTGG 537		
Db	385 GAGGCTACATCCAGAACACTATGTCGCCCCGCTGGTACTCTGGCTGAGCTGGCTGAGCTGG 444		

Db	1525	GATAACATCCAGTGTGGATGACTTCTACAGGCCACAGAGGCCAGTACCAACAG 1584	Db	3864 CAGGAACCTGCCAGAGGCCTCACACATCATGATCGCTGCTGAAAAACCGTCCGG 3923
Qy	1678	CACCCCATGATAGGAGGACCAGGCCAGGGCTGCCAGGGTGGCT 1729	Qy	1601 AGGGCGCCGACCTCCGAAATACATCCGAGTGCTGGATGACTTCATACGGCACAG 1660
Db	1585	CAGCCATGATAGGGAGCACAGGGAGGCAAGGGTGGCT 1636	Db	3924 AGGGCGCCGACCTCGAATACATCCGAGTGCTGGATGACTTCATACGGCACAG 3983
RESULT 6			Qy	1661 AGACCACTAACACAGGCAATGATAGGGAGGACAGGGAGGGCAGGGTGGCCAG 1720
HSHCKE12			Db	3984 AGACCACTAACACAGGCAATGATAGGGAGGACAGGGAGGGTGGCCAG 4043
LOCUS			Qy	1721 GTGGTGGCTCGAAGGTCAGCACATCCGCCAGGGCACACCCCTCCATTACTCC 1780
DEFINITION			Db	4044 GTGGTGGCTGCAAGTGCTCCAGCACATCCGCCAGGGCACACCCCTCCATTACTCC 4103
ACCESSION	X58743	X-9743	Qy	1781 CAGCACCCACCCCTCGCTTCAGCACAGTTCCTCATCTGCTCACAGGGTAGTTGGACT 1840
VERSION	X58743.1	GI:32044	Db	4104 CAGCACCCACCCCTCGCTTCAGCACAGTTCCTCATCTGCTCACAGGGTAGTTGGACT 4163
KEYWORDS	proto-oncogene; src family; T-cell receptor alpha-chain; Tyrosine kinase; v-alpha gene segment; variable region.		Qy	1841 GGAAATCTCTTTGACTCTGCAATCCACATCTGACATCTGAGAACCCAAAGT 1900
SOURCE	Homo sapiens.		Db	4164 GGAAATCTCTTTGACTCTGCAATCCACATCTGACATCTGAGAACCCAAAGT 4223
ORGANISM	Homo sapiens.		Qy	1901 TGATATTCTATTCTGGAAATGGTGGATTAGTTACAGCTGTGATTGGAGGGAAA 1960
REFERENCE	1 (bases 1 to 4507)		Db	4224 TGATATTCTATTCTGGAAATGGTGGATTAGTTACAGCTGTGATTGGAGGGAAA 4283
AUTHORS	Hradetzky,D., Strehlhardt,K. and Rubsamen-Waigmann,H.		Qy	1961 CTTCAAATAATAGTAATGAAATTAAAGATAATAATGC 2005
TITLE	The genomic locus of the human hemopoietic-specific cell protein tyrosine kinase (PTK) encoding gene (HCK) confirms conservation of exon-intron structure among human PTKs of the src family		Db	4284 CTTCAAATAATAGTAATGAAATTAAAGATAATAATGC 4328
JOURNAL	Gene 113 (2), 275-280 (1992)			
MEDLINE	1572549			
PUBLMED	2 (bases 1 to 4507)			
REFERENCE	Hradetzky,D.			
AUTHORS				
TITLE	Direct Submission			
JOURNAL	Submitted (14-JUN-1991) D. Hradetzky, Chemotherapeutisches Forschungsinstitut, Georg-Speyer-Haus, Paul Ehrlich Str 42-44, 6000 Frankfurt 70, Federal Republic of Germany	RESULT 7	HSJ836N17	HSJ836N17
COMMENT	See also X58736-X58740, X58744-X58769	LOCUS		Human DNA sequence from clone RP5-836N17 on chromosome 20q11.1-11.21. Contains part of the HCK (hemopoietic cell kinase) gene, the KIAA0255 gene, a ribosomal protein L30 pseudogene, ESTs, STSS, GSSs and CPG Islands, complete sequence.
FEATURES	Location/Qualifiers	DEFINITION		AL049539_21 GI:6456855
source	1 .. 4507	ACCESSION		AL049539
	/organism="Homo sapiens"	VERSION		AL049539_21 GI:6456855
	/db_xref="taxon:9606"	KEYWORDS		HTG; CPG Island; HCK; hemopoietic; KIAA0255; kinase; RPL30.
	/chromosome="20"	ORGANISM		Homo sapiens
	/map="q11-12"	REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
	/clone="500_H"	AUTHORS		Sehra, H.
	/tissue_type="spleen"	TITLE		Direct Submission (26-FEB-2001) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
	/clone_lib="genomic"; "TS48"	JOURNAL		Comments: cloner@clones.sanger.ac.uk
	/dev_stage="adult"	COMMENT		On Nov 21, 1999 this sequence version replaced q1:6433925. During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations human.
	<1 .. 3806	ORGANISM		Human variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:
repeat_region	number=11	Em:, EMBL:, SW:, SWISSPROT:, Tr:, TREMBL:, Wp:, WORMPEP:, Information on the WORMPEP database can be found at		Em:, EMBL:, SW:, SWISSPROT:, Tr:, TREMBL:, Wp:, WORMPEP:, Information on the WORMPEP database can be found at
repeat_region	1982..2149	COMMENT		http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence is the entire insert of clone RP5-836N17 the true left end of clone RP11-392M18 is at 77067 in this sequence. This sequence was generated from part of bacterial clone contigs of human chromosome 20, constructed by the Sanger Centre Chromosome 20 Mapping Group.
repeat_region	2390..2748	ORIGIN		This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >
gene	/note="Alu repeat partial"	BASE COUNT	1159 a	Query Match 21.0%; Score 423; DB 9; Length 4507;
exon	/note="Alu repeat VIII"	Best Local Similarity 99.6%; Pred. No. 3..6..232; Mismatches 0; Indels 0; Gaps 0;	Matches 523; Conservative 0; /gene="HCK"	4311..4312
	/gene="HCK"	Qy	1481 CAGGGATGCTAACCTGAAATGCTGAGTGTGGATACCGATGCCCTCCC 1540	3807..3842
	/gene="HCK"	Db	3804 CAGGGATGCTAACCTGAAATGCTGAGTGTGGATACCGATGCCCTCCC 3863	1541 CAGAGACATGCCAGAGGAGCTCTACAACATCATGATGCCCTGCTGGAAAAACCGTCCGG 1600
		Qy	.	.

30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. RP5-836N17 is from the library RPCI-5 constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/bacpac/home.htm>

VECTOR: pCYPAC2.

FEATURES Location/Qualifiers

source	/organism="Homo sapiens"
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	/map="q11.1-11.21"
	/clone_idb="RPCI-5"
repeat_region	1..62 /note="AluJ/FLAM repeat: matches 1..62 of consensus"
repeat_region	73..173 /note="L2 repeat: matches 2597..2709 of consensus"
repeat_region	243..302 /note="15 copies 4 mer .catc 98% conserved"
repeat_region	601..898 /note="AluSg repeat: matches 1..295 of consensus"
repeat_region	1188..1345 /note="MRB5A repeat: matches 1..185 of consensus"
repeat_region	1364..1668 /note="AluSx repeat: matches 1..307 of consensus"
repeat_region	2074..2881 /note="AluSp repeat: matches 3..313 of consensus"
repeat_region	2583..2904 /note="AluJ repeat: matches 1..311 of consensus"
repeat_region	2993..3134 /note="MIR repeat: matches 2..143 of consensus"
repeat_region	3135..3139 /note="AluSx repeat: matches 1..305 of consensus"
repeat_region	3440..3503 /note="MIR repeat: matches 143..206 of consensus"
repeat_region	3491..3594 /note="MIR repeat: matches 60..164 of consensus"
repeat_region	3866..4024 /note="MER69 repeat: matches 66..236 of consensus"
repeat_region	4033..4126 /note="MER69 repeat: matches 2422..2510 of consensus"
repeat_region	join<4334..4437/8454..8951..9103..11188..11367..13128..13204..18423..18576..23564..23695..25877..26412/4334..2612 /gene="HCK"
mRNA	/product="match GSS: Em:AQ339627"
misc_feature	gene
repeat_region	/gene="HCK"
repeat_region	/product="dj836N17.1 (hemopoietic cell kinase)"
repeat_region	/note="match cDNAs: Em:J03023..Em:M8366..Em:S741.1 Em:X67345..Em:J00487..Em:M12056..Em:M5769..Em:M36881..Em:M5769..Em:U23852..Em:M30903..Em:X03533..Em:L14823..Em:J252191..Em:U70324..Em:M19722..Em:M17031..Em:X15345..Em:U55365..Em:M79321..Em:J03579..Em:AF00302..Em:M64608..Em:AF00301..Em:AF00300..Em:X12461..Em:M23422..Em:L114951..Em:X54970..Em:X54971..Em:M14671..Em:M27266..Em:AF11057..Em:Y5522..Em:S76617..Em:X16440..Em:M16592..Em:M16591..Em:M16038..Em:M14333..Em:L1472..Em:AF081803..Em:X05027..Em:X57018..Em:X13207..Em:Z33998..Em:U07236..Em:X6776..Em:X6776..Em:N24704..match: EST: Em:AAV63708..Em:AA149096..Em:W87315..Em:AI912730..Em:AT220607..Em:AI572095"
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CDS	/note="Continues in Em:AI353092 as dn18011..1 match: Proteins: Sw:P06239..Sw:P06240..Sw:P08103..Sw:P50545..Tr:O13064..Sw:pA2683..Sw:P08631..Sw:Q07014..Sw:P07948" /codon_start=2

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repeat_region	/note="AluJo repeat: matches 5. .312 of consensus"	COMMENT	Contact: Thomas Hudson Whitehead Institute/MIT Center for Genome Research 9 Cambridge Center, Cambridge MA 02142 USA Tel: 617 252 1900 Fax: 617 252 1902 Email: thudson@genome.wi.mit.edu
repeat_region	/note="MIR repeat: matches 125. .173 of consensus"		
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Best Local Similarity	99.4%	Pred. No. 1e-162; 0; Mismatches 2; Indels 1; Gaps 1;	
Matches 523; Conservate			
Oy	1481 CAGGGATGTCAAACCTGAAGTGAATGCCAGCTTGAGCTGGATAACCGATGGCTGCC 1540		
Db	25874 CAGGGATGTCAAACCTGAAGTGAATGCCAGCTTGAGCTGGATAACCGATGGCTGCC 25933		
Oy	1541 CAGAGACTGCAGAGGAGCTTAACACATCATGATGGCTGTGTGAAAAAACGTCGG 1600		
Db	25934 CAGAGACTGCCAGAGGAGCTTAACACATCATGATGGCTGTGTGAAAAAACGTCGG 25993		
Oy	1601 AGAGGGGCCACCTCTGAAATACATCCAGAGTGTGCTGGATGACTTCACACGGCCACAG 1660		
Db	25994 AGAGGGGCCACCTCTGAAATACATCCAGAGTGTGCTGGATGACTTCACACGGCCACAG 26053		
Oy	1661 AGAGCCAGTACCAACAGCAGCCATGATGGAGAACCCAGGGCAGGG -AAGGGGGTGCAC 1719		
Db	26054 AGAGCCAGTACCAACAGCAGCCATGATGGAGAACCCAGGGCAGGGTGCACCA 26113		
Oy	1720 GGTGGTGGCTCGAAGTGGTGGCTCAGCACCATGCCACACCCCCCTCTACTC 1779		
Db	26114 GGTGGTGGCTCGAAGTGGTGGCTCAGCACCATGCCACACCCCCCTCTACTC 26173		
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Db	26174 CCAGACACCACCCCGCTAGCCACAGTTCCATGTGTCAGTGGTAGTTGGAC 26233		
Oy	1840 TGGAAATATCCTTTTGACTCTTCTGCAATCCACATCTGACATTCAGGAAGGCCCAA 1899		
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DEFINITION	human STS WI-7020, sequence tagged site.		
ACCESSION	G06122		Qy
VERSION	G06122.1 GT:859367		Db
KEYWORDS	SNS: SRS sequence; primer: sequence tagged site.		
SOURCE	Homo sapiens SRS derived from sequences in dbEST and the Unigene collection.		
ORGANISM	Homo sapiens		
MATERIALS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrates; Euteleostomi; Mammalia; Eutheria; Primates; Hominidae; Homo.		
REFERENCE	1 (bases 1 to 333)		
AUTHORS	Hudson,T. Whitehead Institute/MIT Center for Genome Research; Physically Mapped ESTs		
TITLE		RESULT 9	
		HSHCKE69	5268 bp
		LOCUS	DNA
			linear
			PRI 27-AUG-1999

DEFINITION H.sapiens HCK gene for tyrosine kinase (PTK), exons 6-9.

VERSION X58741 X59741 .3248

KEYWORDS proto-oncogene; src family; T-cell receptor alpha-chain; Tyrosine kinase; V-alpha gene segment; variable region.

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 5268)

AUTHORS Hradetzky,D., Streibhardt,K. and Rabsamen-Waigmann,H.

TITLE The genomic locus of the human hemopoietic-specific cell protein tyrosine kinase (PTK)-encoding gene (HCK) confirms conservation of exon-intron structure among human PTKs of the src family

JOURNAL Gene 113 (2). 275-280 (1992)

MEDLINE 92241680

PUBMED 1572549

REFERENCE 2 (bases 1 to 5268)

AUTHORS Hradetzky,D.

TITLE Direct Submission

JOURNAL Submitted (14-JUN-1991) D. Hradetzky, Chemotherapeutisches Forschungsinstitut, Georg-Speyer-Haus, Paul Ehrlich Str 42-44, 6000 Frankfurt 70, Federal Republic of Germany

COMMENT See also X58736-X58740, X58744-X58769

See also X58742 and X58743

FEATURES Location/Qualifiers

source

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/number=5

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intrin

gene

mRNA

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/partial

/gene="HCK"

CDS

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/number=7

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/number=8

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/gene="HCK"

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/note="HCK"

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/number=9

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/note="HCK"

intron

/number=9

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ORIGIN /number=9

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Best Local Similarity 100.0%

Matches 182; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 3571 GCACCTACACAAGAACACCAAGTGAGACCATGAGCCAGGGATGTCG 3630

Qy 1000 GTGGAGGCCCTCTGGCAGGGCAACAGTGTATGAAAACACTCTGCAGCATGACAAGCTGGTC 1059

Db 3631 GTGGAGGCCCTCTGGCAGGGCAACAGTGTATGAAAACACTCTGCAGCATGACAAGCTGGTC 3690

Qy 1060 AAACTCTATGGTGTGTACATCATCAGGAGTTCTCATCATCAGGCCAA 1119

Db 3691 AAACTCTATGGTGTGTACCAAGGCCCCATCATCATCAGGCCAACTCATCATCAGGCCAA 3750

RESULT 10

HSHCKE11

LOCUS H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11.

DEFINITION H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11.

ACCESSION X58742 X59742

VERSION X58742..1 GI:32043

KEYWORDS proto-oncogene; src family; T-cell receptor alpha-chain; Tyrosine kinase; V-alpha gene segment; variable region.

SOURCE Homo sapiens

ORGANISM Homo sapiens

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 2167)

AUTHORS Hradetzky,D., Streibhardt,K. and Rabsamen-Waigmann,H.

TITLE The genomic locus of the human hemopoietic-specific cell protein tyrosine kinase (PTK)-encoding gene (HCK) confirms conservation of exon-intron structure among human PTKs of the src family

JOURNAL Gene 113 (2). 275-280 (1992)

MEDLINE 92241680

PUBMED 1572549

REFERENCE 2 (bases 1 to 2167)

AUTHORS Hradetzky,D.

TITLE Direct Submission

JOURNAL Submitted (14-JUN-1991) D. Hradetzky, Chemotherapeutisches Forschungsinstitut, Georg-Speyer-Haus, Paul Ehrlich Str 42-44, 6000 Frankfurt 70, Federal Republic of Germany

COMMENT See also X58746-X58740, X5744-X58743

FEATURES Location/Qualifiers

Source 1..2167

/organism="Homo sapiens"



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RESULT 12
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LOCUS      MFA320181      1515 bp  mRNA
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ACCESSION AJ320181
VERSION   AJ320181.1 GI:146272115
KEYWORDS hck gene; hck protein; tyrosine kinase.
SOURCE    Cercopithecinae: Macaca.
ORGANISM Macaca fascicularis
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          Mammalia; Butheroidea; Primates; Catarrhini; Cercopitheciidae;
          Cercopithecinae; Macaca.
REFERENCE Picard,C.
AUTHORS Thesis (2001) Department of Experimental Oncology laboratory, U
JOURNAL 2 (bases 1 to 1515)
REFERENCE Picard,C.
AUTHORS Direct Submission
TITLE   Submitted (02-JUL-2001) Picard C., U119, Inserm, bd Leï Roure,
JOURNAL Marseille 13010, FRANCE
REFERENCE Source
FEATURES Location/Qualifiers
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		640 AGCTACTCTTGTCGTTGGAGACTACGACCCCTGGCGGGAGATA 686 Y 469 AGCTACTCTTGTCGTTGGAGACTACGACCCCTGGCGGGAGATA 515	
		RESULT 13	
		25924 G25924 366 bp DNA sequence tagged site. linear LOCUS HUMHCK DEFINITION Human hemopoietic cell kinase (HCK) gene, exon 1. ACCESSION M73233 VERSION M73233..1 GI:485365 KEYWORDS hemopoietic cell kinase. SOURCE Homo sapiens DNA. ORGANISM Homo sapiens Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (bases 1 to 958) AUTHORS Lichtenberg,U., Quintrell,N. and Bishop,J.M. TITLE Human protein-tyrosine kinase gene HCK: expression and structural analysis of the promoter region JOURNAL Oncogene 7 (5), 849-858 (1992) MEDLINE 92237010 PUBMED 1373873 FEATURES Location/Qualifiers source LOCUS /organism="Homo sapiens" /db_xref="taxon:9606" /map="120q11..q12" /cell_type="lymphocyte" 1..958 5' UTR gene exon COMMENT Contact: Thomas Hudson Whitehead Institute Center for Genome Research 9 Cambridge Center, Cambridge MA 02142 USA Tel: 617 252 1900 Fax: 617 252 1902 Email: thudson@genome.wi.mit.edu	PRI 08-NOV-1994 linear PRI
		Primer A: GATCCGAGCTCTGGAGCG Primer B: CGTGTAGAAGTCATCCAGC STS size: 150 PCR Profile: Presoak: Denaturation: Annealing: 56 degrees C Polymerization: PCR Cycles: 35 Thermal Cycler: Protocol: Template: 10 ng Primer: Each	
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VERSION	AB071605.1						
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	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.						
REFERENCE	1						
AUTHORS	Gu,J., Ren,K., Dubner,R. and Iadarola,M.J.						
TITLE	Cloning of a DNA binding protein that is a tyrosine kinase substrate and recognizes an upstream initiator-like sequence in the promoter of the preprodynorphin gene						
JOURNAL	Brain Res. Mol. Brain Res.	24 (1-4), 77-88 (1994)					
MEDLINE	95050808						
PUBLISHED	2						
AUTHORS	Gu,J., Dubner,R., Fornace,J.A. and Iadarola,M.						
TITLE	UREB1, a tyrosine phosphorylated nuclear protein, inhibits p53 transactivation						
JOURNAL	Oncogene 16, 2175-2178 (1995)						
REFERENCE	3						
AUTHORS	Miyazaki,K., Okamoto,Y., Sakamoto,M., Kato,C., Ozaki,T., Nakagawa,A.						
TITLE	Homo sapiens LASU1 (large structure of UREB1) mRNA, complete cds						
JOURNAL	Unpublished						
REFERENCE	4	(bases 1 to 10348)					
AUTHORS	Watanabe,K. and Nakagawa,A.						
TITLE	Submitted (16-SEP-2001) Akira Nakagawa, Chiba Cancer Center Research Institute, Division of Biochemistry; 666-2 Nitona, Chuoh-ku Chiba, Chiba 260-8717, Japan						
JOURNAL	(E-mail: akiranak@chiba-cc.pref.chiba.jp, Tel: 81-43-264-5431, Fax: 81-43-265-4459)						
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Best Local Similarity 100.0%; Pred. No. 1.8e-31;  
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Db 4480 |||||||GGCTCTGAG 4495

Search completed: July 4, 2003, 03:58:32  
Job time : 5242 secs

Result No.	Score	Query	Match	Length	DB	ID	Description
1	2015	GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.	100.0	2015	24	ABK83939	Human cDNA differ
2	2015	OM nucleic - nucleic search, using sw model	100.0	2015	24	ABK83939	Lung cancer relate
3	1552	Run on: July 4, 2003, 00:36:13 ; Search time 456 Seconds (without alignments) 9951.264 Million cell updates/sec	77.0	1926	24	ABK83939	Human cDNA differ
4	183	Title: US-10-007-010-3 Perfect score: 2015 Sequence: 1 cggggcacggaaatgggg.....ataataatgcaagtcttacg 2015	9.1	183	24	ABK83940	Human nucleotide f
5	181	Scoring table: OLIGO-NUC Gapop 60.0 , Gapext 60.0	9.0	1416	24	ABK83941	Rat/human fusion c
6	181	Searched: 2185239 seqs, 1125999159 residues	9.0	1542	24	ABK83942	Rat/human fusion c
7	169	Word size : 0	8.4	369	16	AAT19957	Human gene signature
8	133	Total number of hits satisfying chosen parameters : 4370478	6.6	171	22	ABA68558	Human breast cell
9	133	Minimum DB seq length: 0	6.6	133	22	ABA55928	Human foetal liver
		Maximum DB seq length: 20000000000	6.6	133	22	ABA55928	Probe #13963 for g
		Post-processing: Listing first 45 summaries	6.6	133	22	ABA55928	Human brain express
		Database : N_Geneseq_101002:*	6.6	133	22	ABA55928	Human bone marrow
		1: /SIDS2/gcdata/geneseq/geneseq/geneseqn-emb1/NA1980.DAT:*	6.6	133	22	ABA55928	Probe #1341 for g
		2: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1981.DAT:*	6.6	133	22	ABA55928	Probe #17414 used
		3: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1982.DAT:*	6.6	133	22	ABA55928	Probe #8026 used t
		4: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1983.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		5: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1984.DAT:*	6.6	133	22	ABA55928	Human breast cell
		6: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1985.DAT:*	6.6	133	22	ABA55928	Human foetal liver
		7: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1986.DAT:*	6.6	133	22	ABA55928	Probe #4061 for ge
		8: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1987.DAT:*	6.6	133	22	ABA55928	Human brain express
		9: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1988.DAT:*	6.6	133	22	ABA55928	Human bone marrow
		10: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1989.DAT:*	6.6	133	22	ABA55928	Probe #17414 used
		11: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1990.DAT:*	6.6	133	22	ABA55928	Probe #8026 used t
		12: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1991.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		13: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1992.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		14: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1993.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		15: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1994.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		16: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1995.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		17: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1996.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		18: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1997.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		19: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1998.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		20: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1999.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		21: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2000.DAT:*	6.6	133	22	ABA55928	Human genome deriv
		22: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2001.DAT:*	6.6	133	22	ABA55928	KW human; ss; granuloctytic cell; DNA chip; bacterial infection;
		23: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2001B.DAT:*	6.6	133	22	ABA55928	KW viral infection; parasitic infection; protozoal infection;
		24: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2002.DAT:*	6.6	133	22	ABA55928	KW fungal infection; sterile inflammatory disease; psoriasis;
							KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
							KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
							KW adult respiratory distress syndrome; inflammatory bowel disease;
							KW Crohn's disease; ulcerative colitis; periodontal disease;
							KW granulocyte activation; chronic inflammation; allergy.
							XX Homo sapiens.
							OS Homo sapiens.
							XX WO200228999-A2.
							XX PN WO200228999-A2.
							XX PD 11-APR-2002.
							XX XX 03-OCT-2001; 2001WO-US30821.
							XX PR 03-OCT-2000; 2000US-237189P.
							XX PA (GENE-) GENE LOGIC INC.
							PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;

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## SUMMARIES

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6	181	Searched: 2185239 seqs, 1125999159 residues	9.0	1542	24	ABK83942	Rat sequence differe
7	169	Word size : 0	8.4	369	16	AAT19957	Human immune/haema
8	133	Total number of hits satisfying chosen parameters : 4370478	6.6	171	22	ABA68558	Human cDNA differ
9	133	Minimum DB seq length: 0	6.6	133	22	ABA55928	Human single nucle
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		1: /SIDS2/gcdata/geneseq/geneseq/geneseqn-emb1/NA1980.DAT:*	6.6	133	22	ABA55928	Human single nucle
		2: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1981.DAT:*	6.6	133	22	ABA55928	Human single nucle
		3: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1982.DAT:*	6.6	133	22	ABA55928	Human single nucle
		4: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1983.DAT:*	6.6	133	22	ABA55928	Human single nucle
		5: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1984.DAT:*	6.6	133	22	ABA55928	Human single nucle
		6: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1985.DAT:*	6.6	133	22	ABA55928	Human single nucle
		7: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1986.DAT:*	6.6	133	22	ABA55928	Human single nucle
		8: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1987.DAT:*	6.6	133	22	ABA55928	Human single nucle
		9: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1988.DAT:*	6.6	133	22	ABA55928	Human single nucle
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							XX PR 03-OCT-2000; 2000US-237189P.
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		13: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1992.DAT:*	6.6	171	22	ABA68558	Human genome deriv
		14: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1993.DAT:*	6.6	171			

XX	WPI; 2002-435328/46.	Qy	301 CACACAGCAACACAGGAATCAGGGAGGCCAGGCTCTGAGGACATCATCGTGTGTTGCC 360
XX	detecting granulocyte activation by detecting differential expression of genes associated with granulocyte activation, which serves as diagnostic markers that is useful for monitoring disease states and drug toxicity -	Db	301 CACACAGCAACACAGGAATCAGGGAGGCCAGGCTCTGAGGACATCATCGTGTGTTGCC 360
PT		Qy	361 CTGTATGATTACAGGAGCCATTACACACAGAAAGACCTCAGCTTCAGAAGGGGGACAGATG 420
PT		Db	361 CTGTATGATTACAGGAGCCATTACACACAGAAAGACCTCAGCTTCAGAAGGGGGACAGATG 420
PR		Qy	421 GTGGCCTCTAGGGATTCAGGATCAGGGAGTCGGGAGTGGCTGAAGGCCTCGATCCCTGGCACCCGAGAG 480
PR		Db	421 GTGGCCTCTAGGGATTCAGGATCAGGGAGTCGGGAGTGGCTGAAGGCCTCGATCCCTGGCACCCGAGAG 480
CC	The invention relates to detecting (M1) granulocyte (GC) activation (GCA), by detecting the level of expression of gene(s) (Gs) identified by DNA chip analysis as given in the specification, and comparing the expression level to an expression level in an unactivated GC, where differential expression of Gs is indicative of GCA.	Qy	481 GGCTACATCCAAAGAACATGTCGCCGGTGACTCTGAGAACAGGAGTCAGGAGTCAGTGGTT 540
CC	Also included are modulating (M2) GA by contacting GC with an agent that alters the expression of at least one gene in Gs; (2) screening (M3) for an agent capable of modulating GCA or an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease using the gene expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by detecting the level of expression in a sample of the tissue of gene(s) from Gs, where the level of expression of the gene is indicative of inflammation;	Db	481 GGCTACATCCAAAGAACATGTCGCCGGTGACTCTGAGAACAGGAGTCAGGAGTCAGTGGTT 540
CC	(4) treating (M5) an inflammation (especially chronic) or in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by contacting a tissue having inflammation with an agent that modulates the expression of gene(s) from Gs. In the tissue, M1 is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful for screening an agent capable of modulating GCA preferably in an inflammation in a tissue, bacterial infection, viral infection, fungal infection and M5 is useful for treating one of the above conditions. The present sequence represents a gene differentially expressed in granulocytes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at <a href="http://wipo.int/published-pct-sequences">ftp://wipo.int/published-pct-sequences</a> .	Qy	541 TCAAGGGCATCAGGGAAAGGACAGAGGCCAACTCTGCTCCGGCAACATGCTG 600
CC		Db	541 TCAAGGGCATCAGGGAAAGGACAGAGGCCAACTCTGCTCCGGCAACATGCTG 600
CC		Qy	601 GGCTCTCTCATGATCGGATAGCGAGAACACTAAAGGACTCTGCTCGTGGGA 660
CC		Db	601 GGCTCTCTCATGATCGGATAGCGAGAACACTAAAGGACTCTGCTCGTGGGA 660
CC		Qy	661 GACTAGACCCTGGGGAGATACCGTGAATAAGATCGAACCTCTGAGAGTCGGACAC 720
CC		Db	661 GACTAGACCCTGGGGAGATACCGTGAATAAGATCGAACCTCTGAGAGTCGGACAC 720
CC		Qy	721 TACAGAAAGGGAAAGCAGGGCTCTGCCAGAAACTGTCGATGTCCTCCAG 840
CC		Db	721 TACAGAAAGGGAAAGCAGGGCTCTGCCAGAAACTGTCGATGTCCTCCAG 840
CC		Qy	781 CCCAGAAGCCTGGGAAAGATGCTGGGAGATCCTGGGAAATCCCTCAAGCTGGAG 900
CC		Db	781 CCCAGAAGCCTGGGAAAGATGCTGGGAGATCCTGGGAAATCCCTCAAGCTGGAG 900
CC		Qy	841 CCCAGAAGCCTGGGAAAGATGCTGGGAGATGCTGGGAAATCCCTCAAGCTGGAG 960
CC		Db	841 CCCAGAAGCCTGGGAAAGATGCTGGGAGATGCTGGGAAATCCCTCAAGCTGGAG 960
CC		Qy	901 AAGAAACTTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 1020
CC		Db	901 AAGAAACTTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAGCTGGGAG 1020
CC		Qy	961 AAGGTGGCAGTGAAGAACGATAAGCCAGGGAGCATGTCGTTGGGAGCTGGCAGAG 1020
CC		Db	961 AAGGTGGCAGTGAAGAACGATAAGCCAGGGAGCATGTCGTTGGGAGCTGGCAGAG 1020
SQ	Sequence 2015 BP; 512 A; 580 G; 383 T; 0 other;	Qy	1021 GCCAACCTGTGAAAAACTCTGAGCATGACAAGCTGGTCAAAACTCATGGGTGTTGCC 1080
SQ	Query Match 100.0%; Score 2015; DB 24; Length 2015;	Db	1021 GCCAACCTGTGAAAAACTCTGAGCATGACAAGCTGGTCAAAACTCATGGGTGTTGCC 1080
Best Local Similarity 100.0%; Pred. No. 0;	Mismatches 0; Indels 0; Gaps 0;	Qy	1081 AAGGAGGCCAACTCATGAGGCTCTGAGCATGACAAGCTGGTCAAAACTCATGGGTGTTGCC 1140
Matches 2015; Conservative		Db	1081 AAGGAGGCCAACTCATGAGGCTCTGAGCATGACAAGCTGGTCAAAACTCATGGGTGTTGCC 1140
Qy	1 CGGAGGCACGGAAAGATGAGGAGGATGATGAGGTGAAGGGAGATGA 60	Qy	1141 AAAAGTGTAGGGCAGCAAGCAGCAAGCTGAGGAAACTCATGAGCTTCAGCCCAAGAT 1200
Db	1 CGGAGGCACGGAAAGATGAGGAGGATGATGAGGTGAAGGGAGATGA 60	Db	1141 AAAAGTGTAGGGCAGCAAGCAGCAAGCTGAGGAAACTCATGAGCTTCAGCCCAAGAT 1200
Qy	61 AGACCATGAGCATGGGCTCTGGGCTGGGAGCTGGGGCTGGGGCTC 120	Qy	1201 CCAGAAGGCCATGGCCTCATGAGGAGGAACTCATCCACCGAGAACCTCGGACTGCC 1260
Db	61 AGACCATGAGCATGGGCTCTGGGCTGGGGCTGGGGCTC 120	Db	1201 CCAGAAGGCCATGGCCTCATGAGGAGGAACTCATCCACCGAGAACCTCGGACTGCC 1260
Qy	121 AAGCTGAGGATCGGCTGGCCGGAGACAGAGGGGGCTGAATG 180	Qy	1321 ATGGAGACAACGAGTACACGGCTGGGAAGGGCCAAAGTCCCATCAAGTGGCACAGT 1380
Db	121 AAGCTGAGGATCGGCTGGCCGGAGACAGAGGGGGCTGAATG 180	Db	1321 ATGGAGACAACGAGTACACGGCTGGGAAGGGCCAAAGTCCCATCAAGTGGCACAGT 1380
Qy	181 AAGTCGAAGTCTCCTGGGGCTGGGGCTGGGGCTGGGGCTC 240	Qy	1381 CCTGAAAGCCATCAACCTTGGCTCCCTACCATCAAGCTGGTCTTGGTATC 1440
Db	181 AAGTCGAAGTCTCCTGGGGCTGGGGCTGGGGCTC 240	Db	1381 CCTGAAAGCCATCAACCTTGGCTCCCTACCATCAAGCTGGTCTTGGTATC 1440



Qy	1 CGGAGGCACGAAAGATGGAGATGATCAGGAGGATGATGAAGGTGAGAGGGAGANGA 60	QY	1081 AAGGAGGCCATCTACATCATCGGAGTTCACTGGCCAAAGGAAGTCATGGGACTTTCCTG 1140
Db	1 CGGAGGCACGAAAGATGGAGATGATCAGGAGGATGATGAAGGTGAGAGGGAGANGA 60	Db	1081 AAGGAGGCCATCTACATCATCGGAGTTCACTGGCCAAAGGAAGTCATGGGACTTTCCTG 1140
Qy	61 AGACGATGACCAAGATGGCAGCTGGGGTGCCTAGGGTGGCCAGTCAGGGGGGCGCTC 120	QY	1141 AAGATGATGAGGGCAGAACGAGGCAATTGCAAAACTCATGGCTTCAGGCCAGATT 1200
Db	61 AGACGATGACCAAGATGGCAGCTGGGGTGCCTAGGGTGGCCAGTCAGGGGGGCGCTC 120	Db	1141 AAGATGATGAGGGCAGAACGAGGCAATTGCAAAACTCATGGCTTCAGGCCAGATT 1200
Qy	121 AAGCTGGAGATCCGGCTGGCTGGCTGGGGGGGGCTGATG 180	QY	1201 GCGAAGGCCATGGCCTICATCGAGCACAGGAACTACATCCACCGAGACCTCGAGCTGCC 1260
Db	121 AAGCTGGAGATCCGGCTGGCTGGCTGGGGGGGGCTGATG 180	Db	1201 GCGAAGGCCATGGCCTICATCGAGCACAGGAACTACATCCACCGAGACCTCGAGCTGCC 1260
Qy	181 AAGTCCAAGTTCCTCGAGTGGAGGCAATTACATCTCAAATAACTGAAACCAAGGCCAGC 240	QY	1261 AACATCTGGCTCTGCATCCCTGCTGATGCTGACTTTCGCTGGCCCGGGTC 1320
Db	181 AAGTCCAAGTTCCTCGAGTGGAGGCAATTACATCTCAAATACTGAAACCAAGGCCAGC 240	Db	1261 AACATCTGGCTCTGCATCCCTGCTGACTTTCGCTGGCCCGGGTC 1320
Qy	241 CCACACTGCTCTGTACGTCGCGATCCCACATCCACATCAAGCGGGCTTAATAGC 300	QY	1321 ATGGAGGACAACGAGTACACGGCTCTCGGGAAAGGGGCCAAAGTGGGAGCAGCT 1380
Db	241 CCACACTGCTCTGTACGTCGCGATCCCACATCCACATCAAGCGGGCTTAATAGC 300	Db	1321 ATGGAGGACAACGAGTACACGGCTCTCGGGAAAGGGGCCAAAGTGGGAGCAGCT 1380
Qy	301 CACAAAGCACACACAGGAGGCAATTACGAGCATCTCGGGTTSCC 360	QY	1381 CCTGAAAGGCCATCAACTTGGCTTCACCATCAACTTGAGCTGGCCATCTGGCTTCGTATC 1440
Db	301 CACAAAGCACACACAGGAGGCAATTACGAGCATCTCGGGTTSCC 360	Db	1381 CCTGAAAGGCCATCAACTTGGCTTCACCATCAACTTGAGCTGGCCATCTGGCTTCGTATC 1440
Qy	361 CTGTATGATTACGAGCCATTACCAAGAGAACCTCAGCTTCCAGAAAGGGGACCAGATG 420	QY	1441 CTGCTGTGGAGATGATGTCACCTACGGCGGATCCTACGGGGATCCTACGGGATCAACCTGAA 1500
Db	361 CTGTATGATTACGAGCCATTACCAAGAGAACCTCAGCTTCCAGAAAGGGGACCAGATG 420	Db	1441 CTGCTGTGGAGATGATGTCACCTACGGCGGATCCTACGGGGATCCTACGGGATCAACCTGAA 1500
Qy	421 GTGGTCTCTAGGAAATCGGGGAGTGGCTCGATCCCTGGCACCCGAAAGGAG 480	QY	1501 GTGATCCSAGCTCTGGAGCGCTGGATACCGGATGCTGGCCAGAGAAACTGCCAGAGGAG 1560
Db	421 GTGGTCTCTAGGAAATCGGGGAGTGGCTGGCACCCGAAAGGAG 480	Db	1501 GTGATCCSAGCTCTGGAGCGCTGGATACCGGATGCTGGCCAGAGAACTGCCAGAGGAG 1560
Qy	481 GGCTACATCCAAAGAACATGTTGGAGGACTCTGGTGGAGGTGTT 540	QY	1561 CTCATACAACTATGAGCCGGTGGCTGGAAAAACCGTCCGGAGGGAGGGCCGACCTCTGAA 1620
Db	481 GGCTACATCCAAAGAACATGTTGGAGGACTCTGGTGGAGGTGTT 540	Db	1561 CTCATACAACTATGAGCCGGTGGCTGGAAAAACCGTCCGGAGGGAGGGCCGACCTCTGAA 1620
Qy	541 TTCAAGGCAATCAGCGGGAGGGCCAGACGCCAACATGCTG 600	QY	1621 TAGATCCAGAGTGTGGTGGATGACTTCTACAGGCCAACAGGAGCTACCAAAAGCAG 1680
Db	541 TTCAAGGCAATCAGCGGGAGGGCCAGACGCCAACATGCTG 600	Db	1621 TAGATCCAGAGTGTGGTGGAGTACTCTACAGGCCAACAGGAGCTACCAAAAGCAG 1680
Qy	601 GGCTCTCTCATGATCGGGATAGCGAGAACCTAAAGGAAGCTACTCTGGCTGGGA 660	QY	1681 CCATGATAGGGAGGCCAGGGAGGGGGGGCCAGGGCTGGCTGGAGGTGGGGCT 1740
Db	601 GGCTCTCTCATGATCGGGATAGCGAGAACCTAAAGGAAGCTACTCTGGCTGGGA 660	Db	1681 CCATGATAGGGAGGCCAGGGAGGGGGAGGGCTGGCTGGAGGTGGGGCT 1740
Qy	661 GACTACGACCTCGGGAGATACCGTCAAAATTAAGATTCGGCTGGACAC 720	QY	1741 CCAGCACATCGCCAGGGCCACCTCCCTCCATCTCCAGAACCCACCTCGCTTC 1800
Db	661 GACTACGACCTCGGGAGATACCGTCAAAATTAAGATTCGGCTGGACAC 720	Db	1741 CCAGCACATCGCCAGGGCCACCTCCCTCCATCTCCAGAACCCACCTCGCTTC 1800
Qy	721 GGGGGTTCTCATCATCCCGGAAGAACCTTCAGCACTCTGGAGGCTGGTGACAC 780	QY	1801 AGCCACAGTTCTCTCATCTGTCACTGCTGGTAGTTGACTGAAATCTTTTGACTC 1860
Db	721 GGGGGTTCTCATCATCCCGGAAGAACCTTCAGCACTCTGGAGGCTGGTGACAC 780	Db	1801 AGCCACAGTTCTCTCATCTGTCACTGCTGGTAGTTGACTGAAATCTTTTGACTC 1860
Qy	781 TACAAGAAGGGAAAGCAGGGCTCTGGAGAAAGTGGCAGTGTCTCCAG 840	QY	1861 TGGCAATCCACACATCTGACATCTGACATTCTAGGAAGCCCCAACGTTCTGGGA 1920
Db	781 TACAAGAAGGGAAAGCAGGGCTCTGGAGAAAGTGGCAGTGTCTCCAG 840	Db	1861 TGGCAATCCACACATCTGACATCTGACATTCTAGGAAGCCCCAACGTTCTGGGA 1920
Qy	841 CCCCAAGAAGCTTGGAGAAAGATGGCAGTCCTGGAGAACCTCCTCAAGCTGGAG 900	QY	1921 ATGGTGGATTAGTTAGTACAGCTGTGATTGGAAAGGAAACTTCAAAATAGTGAATG 1980
Db	841 CCCCAAGAAGCTTGGAGAAAGATGGCAGTCCTGGAGAACCTCCTCAAGCTGGAG 900	Db	1921 ATGGTGGATTAGTTAGTACAGCTGTGATTGGAAAGGAAACTTCAAAATAGTGAATG 1980
Qy	901 AAGAAACATTGGAGAAACTCTGCAGTGAAGTGGCTGGAGCTGGCTGGAG 960	QY	1981 ATATTAAATAAAGATAATAATGCCAAGTCCTAG 2015
Db	901 AAGAAACATTGGAGAAACTCTGCAGTGAAGTGGCTGGAGCTGGCTGGAG 960	Db	1981 ATATTAAATAAAGATAATAATGCCAAGTCCTAG 2015
Qy	961 AAGGTGGCAGTGAAGGAGTGGCTGGAGGAGTGGCTGGAGCTGGCTGGAG 1020	QY	XX ABK83940 standard; cDNA: 1926 BP.
Db	961 AAGGTGGCAGTGAAGGAGTGGCTGGAGGAGTGGCTGGCTGGAG 1020	XX	XX ABK83940
Qy	1021 GCCAACGTGTAGTAAACCTCTGCAGTGAAGTGGCTGGCAACTTCAG 1080	QY	AC ABK83940;
Db	1021 GCCAACGTGTAGTAAACCTCTGCAGTGAAGTGGCTGGCAACTTCAG 1080	DT	14 - AUG - 2002 (first entry)
		XX	

RESULT 3  
ABK83940  
ID : ABK83940  
XX  
AC : ABK83940 ;

DE Human cDNA differentially expressed in granulocytic cells #511.  
 XX  
 KW Human; ss: granulocytic cell; DNA chip: bacterial infection;  
 KW viral infection; parasitic infection; protozoal infection;  
 KW fungal infection; sterile inflammatory disease; psoriasis;  
 KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;  
 KW cardiac reperfusion injury; renal reperfusion injury; ARDS;  
 KW adult respiratory distress syndrome; inflammatory bowel disease;  
 KW Crohn's disease; ulcerative colitis; periodontal disease;  
 KW granulocyte activation; chronic inflammation; allergy.  
 OS Homo sapiens.  
 XX WO200228999-A2.  
 PN PD 11-APR-2002.  
 XX PF 03-OCT-2001; 2001WO-US30821.  
 XX PR 03-OCT-2000; 2000US-237189P.  
 XX PA (GENE-) GENE LOGIC INC.  
 P1 Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;  
 XX DR WPI; 2002-4-35328/46.  
 PT Detecting granulocyte activation by detecting differential expression  
 PT of genes associated with granulocyte activation, which serves as a  
 PT diagnostic markers that is useful for monitoring disease states and  
 XX drug toxicity.  
 PS Claim 1; SEQ ID NO 511; 114pp; English.  
 XX  
 CC The invention relates to detecting (M1) granulocyte (GC) activation  
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by  
 CC DNA chip analysis as given in the specification, and comparing  
 CC the expression level to an expression level in an unactivated  
 CC GC, where differential expression of Gs is indicative of GCA.  
 CC Also included are modulating (M2) GA by contacting GC with an agent  
 CC that alters the expression of at least one gene in Gs; (2) screening (M3)  
 CC for an agent capable of modulating GCA or an inflammation (especially  
 CC chronic) in a tissue, an allergic response in a subject, exposure of a  
 CC subject to a pathogen or sterile inflammatory disease using the  
 CC gene expression profile; (3) detecting (M4) an inflammation (especially  
 CC chronic) in a tissue, an allergic response in a subject, exposure of a  
 CC subject to a pathogen or sterile inflammatory disease, by detecting the  
 CC level of expression in a sample of the tissue of gene(s) from Gs, where  
 CC the level of expression of the gene is indicative of inflammation;  
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,  
 CC an allergic response in a subject, exposure of a subject to a pathogen  
 CC or sterile inflammatory disease, by contacting a tissue having  
 CC inflammation with an agent that modulates the expression of gene(s)  
 CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for  
 CC modulating GA; M3 is useful for screening an agent capable of modulating  
 CC GCA preferably in an inflammation in a tissue; M4 is useful for  
 CC detecting an inflammation (especially chronic) in a tissue, an allergic  
 CC response in a subject, exposure of a subject to a pathogen or sterile  
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,  
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal  
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,  
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,  
 CC periodontal disease; also bacterial infection, viral infection,  
 CC parasitic infection, protozoal infection, fungal infection and M5 is  
 CC useful for treating one of the above conditions. The present  
 CC sequence represents a gene differentially expressed in granulocytes.  
 CC Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic  
 CC format directly from WIPO at  
 CC [http://wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).  
 XX Sequence 1926 BP; 497 A; 522 C; 520 G; 387 T; 0 other;  
 SQ

Query Match 77.0%; Score 1552; DB 24; Length 1926;  
 Best Local Similarity 100.0%; Pct. No. 0;  
 Matches 1552; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 178 ATGAGTCCAAAGTTCCTCCAGGTGGAGGAATACATTCTCAAATAACTGAAACCGGCC 237  
 Db 85 ATGAATGTCAGAATTCCTCAGGTGGAGCAATACATCTCAAATAACTGAAACCGGCC 144  
 Qy 238 AGCCCAACACTGCTCTGTTACGTTGGCATCCACATCCACATCAAACCTGAAACCGGCC 297  
 Db 145 AGCCCAACACTGCTCTGTTACGTTGGCATCCACATCAAACCTGAAACCGGCC 204  
 Qy 298 AGCCCAACACGAAACACCGGAAATCAGGGATCAGGGCAGGGCTCTAGGACATCACGTGTT 357  
 Db 205 AGCCCAACACGAAACACCGGAAATCAGGGATCAGGGCTCTAGGACATCACGTGTT 264  
 Qy 358 GCCTCTGTATGATATCAGGGCCATTCACCAAGAACCTGAGTTCCAGAAAGGGGACCA 417  
 Db 265 GCCTCTGTATGATATCAGGGCATTCACCAAGAACCTGAGTTCCAGAAAGGGGACCA 324  
 Qy 418 ATGTTGGTCTCTAGAGGAATCCGGGAGAGTGGAAAGGGTCAATCCCACGGGAAG 477  
 Db 325 ATGGGGTCTCTAGAGGAATCCGGGAGAGTGGAAAGGGTCAATCCCACGGGAAG 384  
 Qy 478 GAGGGCTACATCCAAAGGACTAATGTCGCCGGTGTGACTCTTGAGACAGAGGTGG 537  
 Db 385 GAGGGCTACATCCAAAGGACTAATGTCGCCGGTGTGACTCTTGAGACAGAGGTGG 444  
 Qy 598 CTGGGCTCCCTCATGATCGGGATAGGGAGACCAACTAAAGGAAGCTACTCTTGTGGTG 657  
 Db 505 CTGGGCTCCCTCATGATCGGGATAGGGAGACCAACTAAAGGAAGCTACTCTTGTGGTG 564  
 Qy 658 CGAGACTAGACCTCGCAGGGAGATACTCTGAAACATTAAGATCAGACCTGGAC 717  
 Db 565 CGAGACTAGACCCCTGGAGGGAGATACTGTAACATTACAGATCAGACCTGGAC 624  
 Qy 718 AACGGGGCTCTCATATCCCCGAAGCACCCTCACGAGCTGGTGAC 777  
 Db 625 AACGGGGCTCTCATATCCCCGAAGCACCCTCACGAGCTGGTGAC 684  
 Qy 778 CACTACAAGAGGGAAACGACGGGCTCTCCAGAAACTGTGGCCCTGCAATGTCCTCC 837  
 Db 685 CACTACAAGAGGGAAACGACGGGCTCTCCAGAAACTGTGGCCCTGCAATGTCCTCC 744  
 Qy 838 AACGCCCAAGGCTTGGGAAAGATGCTGGGAGANTCCCTCAAGCTGTGGCTGCAATGTCCTCC 897  
 Db 745 AACGCCCAAGGCTTGGGAAAGATGCTGGGAGANTCCCTCAAGCTGTGGCTGCAATGTCCTCC 804  
 Qy 898 GAGAGAAACTGTTGGGAGCTTGGGAAAGTCTGGGAGACTCATGGGTTGGACTT 957  
 Db 805 GAGAGAAACTGTTGGGAGCTTGGGAAAGTCTGGGAGACTCATGGGTTGGACTT 864  
 Qy 958 ACACAGGTTGGCATGAGAGCATGAGAGCATGAGAGCATGAGAGCATGAGAG 958  
 Db 865 ACACAGGTTGGCATGAGAGCATGAGAGCATGAGAGCATGAGAGCATGAGAG 1017  
 Qy 1018 GAGGCCAAACGTGTGAAACTCTCAGGTGAAACTCATGGGTTGGACTT 1077  
 Db 925 GAGGCCAAACGTGTGAAACTCTCAGGTGAAACTCATGGGTTGGACTT 984  
 Qy 1078 ACCAAGGAGCCCATCATCATCATACGGAGATGCGCAAGGAACCTTGTGGACTT 1137  
 Db 985 ACCAAGGAGCCCATCATCATCATACGGAGATGCGCAAGGAACCTTGTGGACTT 1044  
 Qy 1138 CTGAAAAGTGTGATGAGGGAGCAAGCAGGCAATTCGAGGAAACTCATTTGACTTCAGGCCAG 1197  
 Db 1045 CTGAAAAGTGTGATGAGGGAGCAAGCAGGCAATTCGAGGAAACTCATTTGACTTCAGGCCAG 1104  
 SQ 1198 ATTCGAGAAGGATGCGCTTCACTGAGGAGAACTACATCCACCGAGACCTCCGGAGCT 1257



PT	diagnosis of acquired immune deficiency syndrome, has high specificity	PA	(FACK/)	
XX		XX	FACKLER O.	
PS	Claim 13; Page 14-15; 22pp; German.	XX	Geyer M.	
XX		XX		
CC	This invention describes a novel fusion protein for blocking the Nef protein of human immune deficiency virus (HIV) which comprises: (i) a protein domain 1 that binds to a di-leucine (LL) motif; (ii) a protein domain 2 that binds to a PxxP motif; and (iii) a polypeptide linker between protein domains 1 and 2. The products of the invention have virucide and anti-HIV activity and are capable of neutralising Nef, an accessory protein essential for pathogenicity of HIV-1. The fusion protein of the invention comprises the LL domain of the beta-subunit of the adapter protein complex AP-1 and the PxxP binding SH3 domain of tyrosine kinase Hck, linked through a 60 amino acid peptide. The products of the invention are used for in vitro diagnosis of AIDS and for treatment of AIDS. The LL and PxxP motifs are specific for Nef, which, unlike HIV protease, has no human homologue, so the fusion protein (which binds Nef with very high affinity) should cause essentially no side effects. This sequence represents a fusion construct composed of a rat nucleotide fragment which contains a di-leucine (LL) motif and a human nucleotide fragment containing a PxxP-motif binding domain useful to the invention.	XX	WPI; 2002-418264/45.	
XX	Sequence 1416 BP; 340 A; 383 C; 386 G; 307 T; 0 other;	XX	New fusion protein that blocks Nef protein, useful for treatment or diagnosis of acquired immune deficiency syndrome, has high specificity	
SQ	Query Match 9.0%; Score 181; DB 24; Length 1416; Best Local Similarity 100.0%; Pred. No. 1.8e-78; Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	XX	PT	
QY	339 TGAGGACATCATCGTGGTTGCCCTGTATTACGGGCCATTACACAGAACCTCAG 398 Db 1233 TGAGGACATCATCGTGGTTGCCCTGTATTACGGGCCATTACACAGAACCTCAG 1292	XX	PT	
QY	399 CTTCCAGAAGGGGACAGATCGTGGTCCTAGAGGAATCCGGGAGTGGTGGAAAGCTCG 458 Db 1293 CTTCCAGAAGGGGACAGATCGTGGTCCTAGAGGAATCCGGGAGTGGTGGAAAGCTCG 1352	XX	PT	
QY	459 ATCCCTGGCCACCGGAGGGCTACATGGCCGGGTGACTC 518 Db 1353 ATCCCTGGCCACCGGAGGGCTACATGGCCGGGTGACTC 1412	XX	PT	
QY	519 T 519 Db 1413 T 1413	XX	PT	
RESULT 6	DE Rat/human fusion construct capable of inactivating HIV Nef protein.	XX	PT	
ID ABL61216	ID ABL61216 standard; DNA; 1542 BP.	XX	PT	
XX	AC ABL61216;	XX	PT	
DT 04-SEP-2002	(first entry)	XX	PT	
DE Nef protein; fusion protein; virucide; anti-HIV; accessory protein;	KW Pathogenicity; diagnosis; AIDS; rat; human; ds.	XX	PT	
XX	Rattus sp.	OS Homo sapiens.	PT	
OS Synthetic.	OS Synthetic.	XX	PT	
XX	DN10109532-C1.	PN PR 28-FEB-2001; 2001DE-1009532.	XX	PT
XX	(GEYE/)	PA GEYE/ GAYER M.	XX	PT
PA	(FACK/)	PA (FACK/)	PT	
XX	XX	XX	PT	
PI	XX	XX	PT	
DR	XX	XX	PT	
PT	XX	XX	PT	
PT	XX	XX	PT	
PS	Claim 16; Page 15-16; 22pp; German.	XX	PT	
CC	This invention describes a novel fusion protein for blocking the Nef protein of human immune deficiency virus (HIV) which comprises: (i) a protein domain 1 that binds to a di-leucine (LL) motif; (ii) a protein domain 2 that binds to a PxxP motif; and (iii) a polypeptide linker between protein domains 1 and 2. The products of the invention have virucide and anti-HIV activity and are capable of neutralising Nef, an accessory protein essential for pathogenicity of HIV-1. The fusion protein of the invention comprises the LL domain of the beta-subunit of the adapter-protein complex AP-1 and the PxxP binding SH3 domain of tyrosine kinase Hck, linked through a 60 amino acid peptide. The products of the invention are used for in vitro diagnosis of AIDS and for treatment of AIDS. The LL and PxxP motifs are specific for Nef, which, unlike HIV protease, has no human homologue, so the fusion protein (which binds Nef with very high affinity) should cause essentially no side effects. This sequence represents a fusion construct composed of a rat nucleotide fragment which contains a di-leucine (LL) motif and a human nucleotide fragment containing a PxxP-motif binding domain useful to the invention.	XX	PT	
CC	Sequence 1542 BP; 369 A; 419 C; 427 G; 327 T; 0 other;	XX	PT	
CC	Query Match 9.0%; Score 181; DB 24; Length 1542; Best Local Similarity 100.0%; Pred. No. 1.8e-78; Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	XX	PT	
QY	339 TGAGGACATCATCGTGGTTGCCCTGTATTACGGGCCATTACACAGAACCTCAG 398 Db 1290 TGAGGACATCATCGTGGTTGCCCTGTATTACGGGCCATTACACAGAACCTCAG 1349	XX	PT	
QY	399 CTTCAGAAGGGACCAGATGGGGACTAGGGAAATCGGGAGTGTGGAGGCTCG 458 Db 1350 CTTCAGAAGGGACCAGATGGGGACTAGGGAAATCGGGAGTGTGGAGGCTCG 1409	XX	PT	
QY	459 ATCCCTGGCCACCGGAGGGCTACATGGCCGGGTGACTC 519 Db 1410 ATCCCTGGCCACCGGAGGGCTACATGGCCGGGTGACTC 1469	XX	PT	
QY	519 T 519 Db 1470 T 1470	XX	PT	
RESULT 7	DE Human gene signature HUMGS1089.	XX	PT	
ID ATI19957	ID ATI19957 standard; cDNA to mRNA; 369 BP.	XX	PT	
AC ATI19957;	AC	XX	PT	
DT 17-JUL-1996	DT 17-JUL-1996 (first entry)	XX	PT	
DE Human gene signature HUMGS1089.	DE Human gene signature HUMGS1089.	XX	PT	
XX	Gene signature; messenger RNA; mRNA; relative abundance; frequency;	XX	PT	
KW human; cloning; mapping; non-biased library; diagnosis; detection;	KW human; cloning; mapping; non-biased library; diagnosis; detection;	XX	PT	
PD 01-JUN-1995.	PD 01-JUN-1995.	XX	PT	
OS Homo sapiens.	OS Homo sapiens.	OS Homo sapiens.	PT	
XX	XX	XX	PT	
PN WO9514772-A1.	PN WO9514772-A1.	XX	PT	
XX	XX	XX	PT	
PD 01-JUN-1995.	PD 01-JUN-1995.	XX	PT	





PR 30 -JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21 -SEP-2000; 2000US-0234687.  
 PR 27 -SEP-2000; 2000US-0236359.  
 PR 04 -OCT-2000; 2000GB-0024263.  
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX PR Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human bone marrow.  
 XX Example 4: SEQ ID NO: 17211; 658pp + Sequence Listing; English.  
 XX PS  
 XX PS The present invention provides a number of single exon nucleic acid  
 CC probes which are derived from genomic sequences expressed in the human  
 CC bone marrow. They can be used to measure gene expression in bone marrow  
 CC samples, which may enable the improved diagnosis and treatment of cancers  
 CC such as lymphoma, leukaemia and myeloma. The present sequence is one of  
 CC the probes of the invention.  
 XX SQ Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;  
 Query Match 6.6%; Score 133; DB 22; Length 171;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-55;  
 Matches 133; Conservative 0; Nismatches 0; Indels 0; Gaps 0;  
 Qy 1352 GGCCCAAGTCCCCATCAAGTGACACTCCCTGAACTTGGCTCCTTCACCA 1411  
 Db 1 GGGCCCAAGTCCCCATCAAGTGACACTCCCTGAACTTGGCTCCTTCACCA 60  
 Qy 1412 TCAAAGTCAGACGCTGCTGCCATTAAGTGCACGCTCTGTGAGATCCCTACCTAGGCCGGA 120  
 Db 61 TCAAAGTCAGACGCTGCTGCCATTAAGTGCACGCTCTGTGAGATCCCTACCTAGGCCGGA 120  
 RESULT 13  
 AAI23408 standard; DNA; 171 BP.  
 ID AAI23408  
 XX AC AAI23408;  
 XX DT 12-OCT-2001 (first entry)  
 XX DE Probe #13341 for gene expression analysis in human cervical cell sample.  
 XX KW Probe; human; microarray; gene expression; cervical epithelial cell;  
 XX OS Homo sapiens.  
 XX PN WO200157278-A2.  
 XX PD 09-AUG-2001.  
 XX PF 30-JAN-2001; 2001WO-US000670.  
 XX DE  
 XX AC AAK42654;  
 XX DT 06-NOV-2001 (first entry)  
 XX Human bone marrow expressed single exon probe SEQ ID NO: 17211.  
 XX KW Human; bone marrow expressed exon; gene expression analysis; probe;  
 XX KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.  
 XX OS Homo sapiens.  
 XX PN WO200157276-A2.  
 XX PD 09-AUG-2001.  
 XX PF 30-JAN-2001; 2001WO-US000668.  
 XX PR 04 -FEB-2000; 2000US-0180312.  
 XX PR 26 -MAY-2000; 2000US-0180312.  
 XX PR 30 -JUN-2000; 2000US-0207156.  
 XX PR 03 -AUG-2000; 2000US-0632266.  
 XX PR 21 -SEP-2000; 2000US-0234687.  
 XX PR 27 -SEP-2000; 2000US-0236359.  
 XX PR 04 -OCT-2000; 2000GB-0024263.  
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;  
 PI WPI; 2001-488901/53.  
 XX Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human cervical epithelial cells -  
 XX Claim 25; SEQ ID No 13341; 487pp; English.  
 XX The present invention relates to human single exon nucleic acid probes (SENP). The present sequence is one such probe. The SENPs are derived from human HeLa cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring human gene expression in a sample derived from human cervical epithelial cells. By measuring gene expression, the probes are therefore useful in grading and/or staging diseases of the cervix, notably cervical cancer.  
 CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).  
 XX Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;  
 Query Match 6.6%; Score 133; DB 22; Length 171;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-55;  
 Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 SQ 13342 GGCCCAAGTCCCCATCAAGTGGACAGCTCTGAGGCCATCAACTTGGCTTCACCA 1411  
 Db 1 GGCCCAAGTCCCCATCAAGTGGACAGCTCTGAGGCCATCAACTTGGCTTCACCA 60  
 QY 14112 TCAAGTCAGCGTGTGGCTTGATGATGAGATGTCACCTAGGGCGGA 1484  
 Db 61 TCAAGTCAGCGTGTGGCTTGATGATGAGATGTCACCTAGGGCGGA 120  
 QY 14112 TCAAGTCAGCGTGTGGCTTGATGATGAGATGTCACCTAGGGCGGA 1471  
 Db 61 TCAAGTCAGCGTGTGGCTTGATGATGAGATGTCACCTAGGGCGGA 120  
 QY 14742 TCCCTTACCCAGG 1484  
 Db 121 TCCCTTACCCAGG 133  
 RESULT 14  
 AA148728 ID AA148728 standard; DNA; 171 BP.  
 XX DT 17-OCT-2001 (first entry)  
 DE Probe #17414 used to measure gene expression in human Placenta sample.  
 XX AC AA148728;  
 KW Probe; microarray; human; Placenta; antenatal diagnosis;  
 KW genetic disorder; ss.  
 XX Homo sapiens.  
 XX PN WO200157272-A2.  
 XX PD 09-AUG-2001.  
 XX 30-JAN-2001; 2001WO-US00663.  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0508408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0334687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX PA Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX DR WPI; 2001-476286/51.  
 XX PT Novel single exon nucleic acid probe used to measuring gene expression in a human breast -  
 XX PS Claim 25; SEQ ID No 9026; 322pp; English.  
 XX CC The present invention relates to novel single exon nucleic acid probes.

CC The present sequence is one such probe. The probes are useful for  
 CC measuring human gene expression in a human breast sample, where the probe  
 CC hybridises at high stringency to a nucleic acid expressed in the human  
 CC breast. The probes are useful for predicting, diagnosing, grading,  
 CC staging, monitoring and prognosis diseases of the human breast,  
 CC particularly those diseases with polygenic aetiology. The diseases  
 CC include: breast cancer, disorders of development, inflammatory diseases  
 CC of the breast, fibrocystic changes, proliferative breast disease and  
 CC non-carcinoma tumours.

Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at [ftp://wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).

XX Sequence 171 BP; 35 A; 53 C; 46 G; 37 T; 0 other;

Query Match	6.6%	Score 133;	DB 22;	Length 171;
Best Local Similarity	100.0%	Pred. No.	7.1e-55;	
Matches	133;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0;

```

Qy      1352 GGGCCAAGTTCCTCATCAACTGGACAGGCTCCTGAAGCCATCAACTTTGGCTCCTTCACCA 1411
       ||||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      1 GGGCCAAGTTCCTCATCAACTGGACAGGCTCCTGAAGCCATCAACTTTGGCTCCTTCACCA 60
       ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy      1412 TCAAGTCAAGCTCGTCTGGCTTGTGATCCCTGCTGATGAGATGTCACCTAGGCCGA 1471
       ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      61 TCAAGTCAAGCTCGTCTGGCTTGTGATGAGATGTCACCTAGGCCGA 120
       ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy      1472 TCCCTTAACCGG 1484
       ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      121 TCCCTTAACCGG 133
       ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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14: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1993.DAT:\*

15: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1994.DAT:\*

16: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1995.DAT:\*

17: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1996.DAT:\*

18: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1997.DAT:\*

19: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1998.DAT:\*

20: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA1999.DAT:\*

21: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA2000.DAT:\*

22: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA2001.DAT:\*

23: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA2001B.DAT:\*

24: /SIDS2/gcdata/geneseg/geneseqn-emb1/NA2002.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query	Match	Length	DB ID	Description
1	31	1.5	31	22	AAI0734	Human single nucleotide polymorphism (SNP) HCK 1.
2	31	1.5	31	22	AAI0735	Human single nucleotide polymorphism (SNP) HCK 1.
3	31	1.5	31	22	AAI0736	Human single nucleotide polymorphism (SNP) HCK 1.
4	31	1.5	31	22	AAI0737	Human single nucleotide polymorphism (SNP) HCK 1.
5	31	1.5	31	22	AAI0738	Human single nucleotide polymorphism (SNP) HCK 1.
c 6	27	1.3	33	22	AAH1498	Human tyrosine kinase gene (PTK2).
c 7	26	1.3	32	22	AAH1491	Human tyrosine kinase gene (PTK2).
c 8	26	1.3	32	22	AAH1492	Human tyrosine kinase gene (PTK2).
c 9	25	1.2	32	22	AAH41501	Human tyrosine kinase gene (PTK2).

**ALIGNMENTS**

RESULT 1  
 ID AAI30734 standard; DNA; 31 BP.  
 XX AC AAI30734;  
 XX DT 18-OCT-2001 (first entry)  
 XX DE Human single nucleotide polymorphism (SNP) HCK 1.  
 XX KW Human; resequencing; genotype; disease; forensic; paternity testing;  
 XX KW single nucleotide polymorphism; SNP; ss.  
 OS Homo sapiens.  
 XX FH Key  
 FT Variation  
 FT replace(16,T)  
 FT /\*tag= "standard\_name= "single nucleotide polymorphism"

Location/Qualifiers  
 /standard\_name= "single nucleotide polymorphism"

8  
 Result No. Score Query Match Length DB ID Description  
 1 31 1.5 31 22 AAI0734 Human single nucleotide polymorphism (SNP) HCK 1.  
 2 31 1.5 31 22 AAI0735 Human single nucleotide polymorphism (SNP) HCK 1.  
 3 31 1.5 31 22 AAI0736 Human single nucleotide polymorphism (SNP) HCK 1.  
 4 31 1.5 31 22 AAI0737 Human single nucleotide polymorphism (SNP) HCK 1.  
 5 31 1.5 31 22 AAI0738 Human single nucleotide polymorphism (SNP) HCK 1.  
 c 6 27 1.3 33 22 AAH1498 Human tyrosine kinase gene (PTK2).  
 c 7 26 1.3 32 22 AAH1491 Human tyrosine kinase gene (PTK2).  
 c 8 26 1.3 32 22 AAH1492 Human tyrosine kinase gene (PTK2).  
 c 9 25 1.2 32 22 AAH41501 Human tyrosine kinase gene (PTK2).

WO200166800-A2.  
 XX PD 13-SEP-2001.  
 XX PF 07-MAR-2001; 2001WO-US07268.  
 XX PR 07-MAR-2000; 2000US-0187510.  
 PR 22-MAY-2000; 2000US-0206129.  
 PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 XX PT Cargill M, Ireland JS, Lander ES;

XX WPI; 2001-522952/57.  
 CC Nucleic acid molecules from the human genome which include polymorphic sites, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes - associated with a particular genotype -  
 PS Claim 1; Page 104; 145pp; English.  
 XX The invention relates to the identification of nucleic acid molecules (AA129513-AA131314) from the human genome which include polymorphic sites which can predispose individuals to disease. Various genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity testing.

CC Sequence 31 BP; 8 A; 8 C; 9 G; 6 T; 0 other;  
 SQ Query Match 1.5%; Score 31; DB 22; Length 31;  
 Best Local Similarity 100.0%; Pred. No. 0.0001;  
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 AC  
 AC 1195 CAGATTCAGAAGGGATGGCTTCAATCGAGC 1125  
 YY 1 CAGATTCAGAAGGGATGGCTTCAATCGAGC 31

XX Sequence 31 BP; 10 A; 9 C; 7 G; 5 T; 0 other;  
 SQ Query Match 1.5%; Score 31; DB 22; Length 31;  
 Best Local Similarity 100.0%; Pred. No. 0.0001;  
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 AC  
 AC 1152 GGCGAACGAGCAGCCATTGCCAAACTCATT 1182  
 YY 1 GGGCAGCAAGCAGCCATTGCCAAACTCATT 31

XX Human single nucleotide polymorphism (SNP) HCK 3.  
 DE Human; resequence; genotype; disease; forensic; paternity testing;  
 KW single nucleotide polymorphism; SNP; ss.  
 XX Homo sapiens.  
 XX OS Homo sapiens.  
 XX FH Key Variation  
 XX FT replace(16,A)  
 XX FT /standard\_name= "single nucleotide polymorphism"  
 XX FT /tag= a  
 XX FT /standard\_name= "single nucleotide polymorphism"  
 XX PD 18-OCT-2001 (first entry)  
 XX PD 13-SEP-2001.  
 XX PF 07-MAR-2001; 2001WO-US07268.  
 XX PR 07-MAR-2000; 2000US-0187510.  
 XX PR 22-MAY-2000; 2000US-0206129.  
 XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 XX PN WO200166800-A2.  
 XX PD 13-SEP-2001.  
 XX PF 07-MAR-2001; 2001WO-US07268.  
 XX PR 07-MAR-2000; 2000US-0187510.  
 XX PR 22-MAY-2000; 2000US-0206129.  
 XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 XX PI Cargill M, Ireland JS, Lander ES;  
 XX DR WPI; 2001-522952/57.  
 XX Nucleic acid molecules from the human genome which include polymorphic sites, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes - associated with a particular genotype -  
 XX PS Claim 1; Page 104; 145pp; English.  
 CC The invention relates to the identification of nucleic acid molecules (AA129513-AA131314) from the human genome which include polymorphic sites which can predispose individuals to disease. Various genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity testing.

SQ Sequence 31 BP; 6 A; 9 C; 6 G; 10 T; 0 other;  
 Query Match 1.5%; Score 31; DB 22; Length 31;  
 Best Local Similarity 100.0%; Pred. No. 0.001;  
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 DE Human single nucleotide polymorphism (SNP) HCK 5.  
 ID AAI10737 standard; DNA; 31 BP.

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RESULT 4  
 AAI10737  
 ID AAI10737 standard; DNA; 31 BP.  
 XX AC AAI10737;  
 XX DT 18-OCT-2001 (first entry)  
 XX DE Human single nucleotide polymorphism (SNP) HCK 4.  
 XX KW Human; resequence; genotype; disease; forensic; paternity testing;  
 XX KW Human; resequence; genotype; disease; forensic; paternity testing;  
 XX KW single nucleotide polymorphism; SNP; ss.  
 OS Homo sapiens.  
 XX FH Key Variation  
 XX FT Location/Qualifiers  
 XX FT replace(16,A)  
 XX FT /\*tag= a  
 XX FT /standard\_name= "single nucleotide polymorphism"  
 OS Homo sapiens.  
 XX FH Key Variation  
 XX FT Location/Qualifiers  
 XX FT replace(16,A)  
 XX FT /\*tag= a  
 XX FT /standard\_name= "single nucleotide polymorphism"  
 OS WO200166800-A2.  
 XX PI Cargill M, Ireland JS, Lander ES;  
 PD 13-SEP-2001.  
 XX PR 07-MAR-2001; 2001WO-US07268.  
 XX PR 07-MAR-2000; 2000US-0187510.  
 XX PR 22-MAY-2000; 2000US-0206129.  
 XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 XX WPI; 2001-522952/57.  
 XX DR 2001-522952/57.  
 XX PI Cargill M, Ireland JS, Lander ES;  
 XX WPI; 2001-522952/57.  
 XX DR 2001-522952/57.  
 XX The invention relates to the identification of nucleic acid molecules (AAI10737-AAI13114) from the human genome which include polymorphic sites which can predispose individuals to disease. Various genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity testing.  
 PS Claim 1: Page 104; 145pp; English.  
 XX SQ Sequence 31 BP; 12 A; 11 C; 5 G; 3 T; 0 other;  
 CC Query Match 1.5%; Score 31; DB 22; Length 31;  
 CC Best Local Similarity 100.0%; Pred. No. 0.001;  
 CC Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 CC DE Human tyrosine kinase Hck PCR primer SEQ ID NO:10.  
 XX QY 921 GTTGGGAAAGTCGTGATGCCACCAAC 951  
 XX Db 1 GTTGGGAAAGTCGTGATGCCACCAAC 31

---

RESULT 5  
 AAI130738 standard; DNA; 31 BP.  
 ID AAI130738;  
 XX AC AAI130738;  
 XX DT 18-OCT-2001 (first entry)  
 XX DE Human single nucleotide polymorphism (SNP) HCK 5.  
 XX KW Human; resequence; genotype; disease; forensic; paternity testing;  
 XX KW single nucleotide polymorphism; SNP; ss.  
 OS Homo sapiens.  
 XX FH Key Variation  
 XX FT Location/Qualifiers  
 XX FT replace(16,G)  
 XX FT /\*tag= a  
 XX FT /standard\_name= "single nucleotide polymorphism"  
 XX PN WO200166800-A2.  
 XX PD 13-SEP-2001.  
 XX PR 07-MAR-2001; 2001WO-US07268.  
 XX PR 07-MAR-2000; 2000US-0187510.  
 XX PR 22-MAY-2000; 2000US-0206129.  
 XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 XX PI Cargill M, Ireland JS, Lander ES;  
 XX WPI; 2001-522952/57.  
 XX DR 2001-522952/57.  
 XX The invention relates to the identification of nucleic acid molecules (AAI130738-AAI13114) from the human genome which include polymorphic sites which can predispose individuals to disease. Various genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity testing.  
 PS Claim 1: Page 104; 145pp; English.  
 XX SQ Sequence 31 BP; 12 A; 11 C; 5 G; 3 T; 0 other;  
 CC Query Match 1.5%; Score 31; DB 22; Length 31;  
 CC Best Local Similarity 100.0%; Pred. No. 0.001;  
 CC Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 CC DE Human tyrosine kinase Hck PCR primer SEQ ID NO:10.  
 XX QY 219 AAAACTGAACACAGGCCAGCCACACTGT 249  
 XX Db 1 AAAACTGAACACAGGCCAGCCACACTGT 31

---

RESULT 6  
 AAH41498/C  
 ID AAH41498 standard; DNA; 33 BP.  
 XX AC AAH41498;  
 XX DT 23-AUG-2001 (first entry)  
 XX DE Human tyrosine kinase Hck PCR primer SEQ ID NO:10.

XX Human; tyrosine kinase Hck binding protein; tyrosine kinase; Hck;  
 KW tumour lethal factor; tumour necrosis factor alpha; apoptosis; ss;  
 KW Hck signal transduction; human immunodeficiency virus; HIV infection;  
 KW anticancer; PCR primer; ss.  
 XX OS Homo sapiens.  
 PN WO200132869-A1.  
 XX PD 10-MAY-2001.  
 XX PR 26-OCT-2000; 2000WO-JP07500.  
 XX DR 2001-316440/33.  
 XX PT New proteins which bind to human tyrosine kinase Hck for promotion of  
 PT apoptosis and for the elucidation of the mechanism of Hck signal  
 PT transduction.  
 XX PS Example 1; Page 30; 45pp; Japanese.  
 XX PA (SSSE ) SSP CO LTD.  
 XX PI Taniyama T, Narita T;  
 XX DR 2001-316440/33.  
 XX PT New proteins which bind to human tyrosine kinase Hck for promotion of  
 PT apoptosis and for the elucidation of the mechanism of Hck signal  
 PT transduction.  
 XX PS Example 3; Page 33; 45pp; Japanese.  
 XX The present invention describes a protein, designated HSB-1, which binds  
 CC to human tyrosine kinase Hck. Also described are: (1) nucleic acids  
 CC encoding the protein and its derivatives; (2) recombinant vectors  
 CC containing the nucleic acids; and (3) host cells transformed by the  
 CC vectors and expressing the protein. HSB-1 has cytostatic activity, binds  
 CC to human tyrosine kinase, enhances tumour necrosis factor alpha and promotes  
 CC apoptosis. HSB-1 proteins are used for the elucidation of the mechanism  
 CC of Hck signal transduction and of the role of Hck in human  
 CC immunodeficiency virus (HIV) infection. They can be used for the  
 CC treatment of infections and other diseases with which Hck is associated.  
 CC They promote the anticancer activity of tumour necrosis factor alpha.  
 CC The present sequence represents a PCR primer used in the cloning of  
 CC HSB-1, which is used in an example from the present invention.  
 XX SQ Sequence 32 BP; 8 A; 5 C; 9 G; 10 T; 0 other;  
 Query Match 1.3%; Score 26; DB 22; Length 32;  
 Best Local Similarity 100.0%; Pred. No. 0.029;  
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 350 TCCTGGTTGCCCTGATGATTACGAG 375  
 Db 7 TCGGGTGGCCCTGATGATTACGAG 32  
 RESULT 8  
 AAH41492/C  
 ID AAH41492 standard; DNA; 32 BP.  
 XX AAH41492;  
 AC AC  
 DT 23-AUG-2001 (first entry)  
 XX Human tyrosine kinase Hck binding protein cloning PCR primer SEQ:4.  
 DE DE  
 KW KW Human; tyrosine kinase Hck binding protein; tyrosine kinase; Hck;  
 KW tumour lethal factor; tumour necrosis factor alpha; apoptosis; HSB-1;  
 KW Hck signal transduction; human immunodeficiency virus; HIV infection;  
 KW anticancer; PCR primer; ss.  
 XX OS Homo sapiens.  
 XX PN WO200132869-A1.  
 XX PD 10-MAY-2001.  
 XX PR 26-OCT-2000; 2000WO-JP07500.  
 XX DR 2001-316440/33.  
 XX PT New proteins which bind to human tyrosine kinase Hck for promotion of  
 PT apoptosis and for the elucidation of the mechanism of Hck signal  
 PT transduction.  
 XX PS Example 1; Page 30; 45pp; Japanese.  
 XX PA (SSSE ) SSP CO LTD.  
 XX PI Taniyama T, Narita T;  
 XX DR 2001-316440/33.  
 XX PT New proteins which bind to human tyrosine kinase Hck for promotion of  
 PT apoptosis and for the elucidation of the mechanism of Hck signal  
 PT transduction.  
 XX PS Example 3; Page 33; 45pp; Japanese.  
 XX The present invention describes a protein, designated HSB-1, which binds  
 CC to human tyrosine kinase Hck. Also described are: (1) nucleic acids  
 CC encoding the protein and its derivatives; (2) recombinant vectors  
 CC containing the nucleic acids; and (3) host cells transformed by the  
 CC vectors and expressing the protein. HSB-1 has cytostatic activity, binds  
 CC to human tyrosine kinase, enhances tumour necrosis factor alpha and promotes  
 CC apoptosis. HSB-1 proteins are used for the elucidation of the mechanism  
 CC of Hck signal transduction and of the role of Hck in human  
 CC immunodeficiency virus (HIV) infection. They can be used for the  
 CC treatment of infections and other diseases with which Hck is associated.  
 CC They promote the anticancer activity of tumour necrosis factor alpha.  
 CC The present sequence represents a PCR primer for the human tyrosine  
 CC kinase Hck, which is used in an example from the present invention.  
 XX SQ Sequence 33 BP; 2 A; 8 C; 11 G; 12 T; 0 other;  
 Query Match 1.3%; Score 27; DB 22; Length 33;  
 Best Local Similarity 100.0%; Pred. No. 0.0093;  
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1657 ACAGAGGCCAGTACCAACAGCACC 1683  
 Db 33 ACAGAGGCCAGTACCAACAGCACC 7  
 RESULT 7  
 AAH41491 standard; DNA; 32 BP.  
 XX AC AAH41491;  
 XX DT 23-AUG-2001 (first entry)  
 XX DE Human tyrosine kinase Hck binding protein cloning PCR primer SEQ:3.  
 XX Human; tyrosine kinase Hck binding protein; tyrosine kinase; Hck;  
 KW tumour lethal factor; tumour necrosis factor alpha; apoptosis; HSB-1;  
 KW Hck signal transduction; human immunodeficiency virus; HIV infection;  
 KW anticancer; PCR primer; ss.  
 XX OS Homo sapiens.  
 XX PN WO200132869-A1.  
 XX PD 10-MAY-2001.  
 XX PR 26-OCT-2000; 2000WO-JP07500.  
 XX DR 2001-316440/33.  
 XX PT New proteins which bind to human tyrosine kinase Hck for promotion of  
 PT apoptosis and for the elucidation of the mechanism of Hck signal  
 PT transduction.  
 XX PS Example 1; Page 30; 45pp; Japanese.  
 XX PA (SSSE ) SSP CO LTD.  
 XX PI Taniyama T, Narita T;  
 XX DR 2001-316440/33.  
 XX PT New proteins which bind to human tyrosine kinase Hck for promotion of  
 PT apoptosis and for the elucidation of the mechanism of Hck signal  
 PT transduction.

New proteins which bind to human tyrosine kinase Hck for promotion of apoptosis and for the elucidation of the mechanism of Hck signal transduction -

Example 1; Page 31; 45pp; Japanese.

The present invention describes a protein, designated HSB-1, which binds to human tyrosine kinase Hck. Also described are: (1) nucleic acids encoding the protein and its derivatives; (2) recombinant vectors containing the nucleic acids; and (3) host cells transformed by the vectors and expressing the protein. HSB-1 has cytosolic activity, binds tyrosine kinase, enhances tumour necrosis factor alpha and promotes apoptosis. HSB-1 proteins are used for the elucidation of the mechanism of Hck signal transduction and of the role of Hck in human immunodeficiency virus (HIV) infection. They can be used for the treatment of infections and other diseases with which Hck is associated. They promote the antineoplastic activity of tumour necrosis factor alpha. The present sequence represents a PCR primer used in the cloning of HSB-1, which is used in an example from the present invention.

Q	Sequence	32 BP; 7 A; 10 C; 9 G; 6 T; 0 other;
Q	Query Match	1.3%; Score 26; DB 22; Length 32;
Y	Best Local Similarity	100.0%; Pred. No. 0.029;
b	Matches 26;	Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Y		796 GACGGGCCTGCGCAGAACTGCGGT 821
b		32 GACGGGCCTGCGCAGAACTGCGGT 7

**RESULT 9**  
**AAH41501/c**  
**D AAH41501 standard; DNA; 32 BP.**  
**C X**  
**X X**  
**AAH41501;**  
**23-AUG-2001 (first entry)**  
**Human tyrosine kinase Hck binding protein cloning PCR primer SEQ:15.**  
**Human: tyrosine kinase Hck binding protein; tyrosine kinase; Hck;**  
**tumour lethal factor; tumour necrosis factor alpha; apoptosis; HSB-1;**  
**Hck signal transduction; human immunodeficiency virus; HIV infection**  
**antigen; PCR primer; ss.**

X	Homo sapiens.
X	WO200132869-A1.
X	10-MAY-2001.
D	
X	26-OCT-2000; 2000WO-JP07500.
X	29-OCT-1999; 99JP-0309957.
R	

X X Taniyama T, Narita T;  
X X WPI; 2001-316440/33.  
X X New proteins which bind to human tyrosine kinase Hck for promotion of  
X X apoptosis and for the elucidation of the mechanism of Hck signal  
X X transduction -  
X X Example 4; Page 41; 45pp; Japanese.  
X X The present invention describes a protein, designated HSB-1, which binds  
EC to human tyrosine kinase Hck. Also described are: (1) nucleic acids  
CC encoding the protein and its derivatives; (2) recombinant vectors  
CC containing the nucleic acids; and (3) host cells transformed by the  
CC vectors and expressing the protein. HSB-1 has cytosstatic activity, binds  
CC

tyrosine kinase, enhances tumour necrosis factor alpha and promotes apoptosis. HS-1 proteins are used for the elucidation of the mechanism of Hck signal transduction and of the role of Hck in human immunodeficiency virus (HIV) infection. They can be used for treatment of infections and other diseases with which Hck is associated. They promote the anticancer activity of tumour necrosis factor alpha. The present sequence represents a PCR primer used in the cloning of HS-1, which is used in an example from the present invention.

xx	Sequence 32 BP;	8 A;	9 C;	10 G;	5 T;	0 other;
Qy	Query Match	1.28;	Score 25;	DB 22;	Length 32;	
Db	Best Local Similarity	100.0%;	Pred. No. 0.089;			
Matches	Matches 25;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps	
	505 GCCCCGGTGTGACTCTTGAGACAG 529					
	32 GCCCCGGTGTGACTCTTGAGACAG 8					

RESULT 10  
ABL00375 standard; DNA; 51 BP.

ID	ABL00375
XX	XX
AC	AC
XX	XX
DT	05-MAR-2002 (first entry)
XX	XX
DE	Human silent noncoding SNP oligonucleotide SEQ ID NO:366.
XX	XX
KW	single nucleotide polymorphism; SNP; polymorphism; cytostatic;
KW	immunosuppressive; antinflammatory; neuroprotective; antimicrobial;
KW	autoimmune disease; inflammation; cancer; nervous system disease;
KW	infection; polymorphic protein; ds.
XX	XX
OS	Homo sapiens.
XX	XX
PN	PN
XX	XX
PD	31-MAY-2001.
XX	XX
PF	22-NOV-2000; 2000WO-US32311.
XX	XX
PR	24-NOV-1999; 99US-0167383.
XX	XX
(CURA- ) CURAGEN CORP.	(CURA- ) CURAGEN CORP.
PA	PA
XX	XX
PI	Shimkets RA, Leach M;
XX	XX
DR	WPI: 2001-355949/37.
XX	XX
PT	Isolated human nucleic acids comprising one or more single nucleotide polymorphisms, useful for treating a subject suffering from, at risk for, or suspected of, suffering from a pathology, e.g. autoimmune diseases, ascribed to the presence of a sequence polymorphism -
PT	Claim 1; Page 359; 674pp; English.
PS	ABL0010 to ABL01104 represent human nucleic acid oligonucleotides comprising one or more single nucleotide polymorphisms (SNPs). ABB56531 to ABB56903 represent human peptides encoded by some of the SNP oligonucleotides. The sequences from the present invention can have immunosuppressive, cytostatic, antiinflammatory, neuroprotective and antimicrobial activities. Nucleic acids, polypeptides, oligonucleotides and antibodies from the present invention can be used for treating a subject suffering from, at risk for, or suspected of, suffering from a pathology ascribed to the presence of a sequence polymorphism. The pathology may be autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. The SNPs are also useful for determining which forms of a characterised polymorphism are present in individuals. The antibodies may be used in the detection, quantitation and/or cellular or tissue localisation of a polymorphic protein (e.g., for use in measuring levels of the



OS Homo sapiens.  
 XX  
 FH Key Variation Location/Qualifiers  
 FT replace(11,C)  
 FT /\*tag= a /standard\_name= "single nucleotide polymorphism"  
 FT  
 XX WO200118250-A2.  
 XX  
 PN  
 XX  
 XX  
 PD 15-MAR-2001.  
 XX  
 PR 07-SEP-2000; 2000WO-US24503.  
 XX  
 PR 10-SEP-1999; 99US-0153357.  
 PR 26-JUL-2000; 2000US-022047.  
 PR 16-AUG-2000; 2000US-0225724.  
 XX  
 PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 PA (MILL-) MILLENIUM PHARM INC.  
 PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;  
 DR WPI; 2001-226749/23.  
 XX  
 PT Nucleic acids comprising single nucleotide polymorphisms, useful in  
 PT applications such as forensics, paternity testing, medicine, genetic  
 PT analysis and phenotype correlations to diseases such as diabetes and  
 PT atherosclerosis -  
 XX  
 PT Examples; Page 75; 242pp; English.  
 XX  
 CC The present invention provides a method of diagnosing a vascular disease  
 CC in an individual, involving determining the sequence at various  
 CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4  
 CC genes. The sequences at a number of polymorphic sites are also provided  
 CC in the specification. In particular, the method can be used in the  
 CC diagnosis of atherosclerosis, myocardial infarction, coronary heart  
 CC disease, stroke, peripheral vascular diseases, venous thromboembolism  
 CC and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also  
 CC useful in forensics, paternity testing, genetic analysis and phenotype  
 CC correlations to diseases. The present sequence is an example of one of  
 CC the human gene SNPs shown in the specification.  
 XX  
 SQ Sequence 21 BP; 3 A; 7 C; 6 G; 5 T; 0 other;  
 Query Match 1.0%; Score 21; DB 22; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 8.3;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 QY 507 CCGGTGACTCTCTGGAGC 527  
 Db 1 CCCGGTGTGACTCTCTGGAGC 21  
 RESULT 14  
 AAF95625 Human gene single nucleotide polymorphism #387.  
 ID AAF95625 standard; DNA; 21 BP.  
 XX  
 AC DE Human gene single nucleotide polymorphism #387.  
 XX  
 DT 06-JUN-2001 (first entry).  
 XX  
 Human gene single nucleotide polymorphism #386.  
 DE Human; variant thrombospondin 1; variant thrombospondin 4; SNP;  
 KW polymorphism; vascular disease; coronary artery disease; forensics;  
 KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;  
 KW pulmonary embolism; paternity test; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Variation Location/Qualifiers  
 FT replace(11,C)  
 XX  
 PR /\*tag= a /standard\_name= "single nucleotide polymorphism"  
 PN WO200118250-A2.

XX 15-MAR-2001.  
XX PD  
XX 07-SEP-2000; 2000WO-US24503.  
XX PF  
XX 10-SEP-1999; 99US-0153357.  
XX PPR  
XX 26-JUL-2000; 2000US-0226947.  
XX PPR  
XX 16-AUG-2000; 2000US-0225724.  
XX XXX  
PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
PA (MILL-) MILLENIUM PHARM INC.  
XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;  
PII WPI: 2001-226749/23.  
XX DRA  
XX Nucleic acids comprising single nucleotide polymorphisms, useful in  
PT applications such as forensics, paternity testing, medicine, genetic  
PT analysis and phenotype correlations to diseases such as diabetes and  
PT atherosclerosis -  
XX

The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombopondin 1 and thrombopondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPs shown in the specification.

Search completed: July 4, 2003, 07:04:56  
Search time : 159 sec

GenCore version 5.1.6  
Copyright (C) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 4, 2003, 06:57:16 ; Search time 98 Seconds  
(without alignments)  
6305.650 Million cell updates/sec

Title: US10-007-010-3  
Perfect score: 2015

Sequence: 1 cggggcacggaaatgagg.....atataatgcgaatcttacg 2015

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0  
Searched: 441362 seqs, 153338381 residues

Word size : 0

Total number of hits satisfying chosen parameters : 687286

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Listing first 45 summaries

Database : Issued\_Patents\_NA:  
1: /cgn2\_6/pctodata/1/ina/5A\_COMB.seq:  
2: /cgn2\_6/pctodata/1/ina/5B\_COMB.seq:  
3: /cgn2\_6/pctodata/1/ina/6A\_COMB.seq:  
4: /cgn2\_6/pctodata/1/ina/6B\_COMB.seq:  
5: /cgn2\_6/pctodata/1/ina/backfilseq1.seq:  
6: /cgn2\_6/pctodata/1/ina/backfilseq1.seq:  
\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Description	
Score	Match	Length	DB ID	%
c 1	18	0.9	20	2 US-08-910-629A-31
c 2	18	0.9	20	2 US-08-910-629A-42
c 3	18	0.9	20	3 US-09-209-668-7
c 4	18	0.9	20	3 US-09-287-796-31
c 5	18	0.9	20	3 US-09-287-796-42
c 6	18	0.9	20	4 US-09-110-616-31
c 7	18	0.9	20	4 US-09-130-616-42
c 8	17	0.8	20	2 US-08-730-876-2
c 9	17	0.8	20	4 US-09-490-692-71
c 10	17	0.8	23	1 US-08-222-616-2
c 11	17	0.8	23	4 US-08-445-648-2
c 12	17	0.8	23	5 PCT-US95-04228-2
c 13	16	0.8	20	4 US-09-506-073-82
c 14	16	0.8	24	2 US-08-859-998-598
c 15	16	0.8	24	4 US-09-225-928-598
c 16	15	0.7	18	3 US-08-951-923-51
c 17	15	0.7	18	4 US-08-584-040-6218
c 18	15	0.7	19	1 US-08-400-580A-11
c 19	15	0.7	31	2 US-08-942-23-51
c 20	15	0.7	36	3 US-08-951-923-52
c 21	15	0.7	36	3 US-08-724-586-3
c 22	15	0.7	36	4 US-09-421-632-3
c 23	15	0.7	36	4 US-09-932-190-3
c 24	15	0.7	45	2 US-08-039-198B-3
c 25	15	0.7	72	2 US-08-707-237A-47
c 26	14	0.7	17	4 US-08-584-040-7661
c 27	14	0.7	18	1 US-08-105-483-197

#### ALIGNMENTS

Sequence 78, Appl	Sequence 78, Appl	Sequence 78, Appl
Sequence 54, Appl	Sequence 54, Appl	Sequence 54, Appl
Sequence 197, App	Sequence 197, App	Sequence 197, App
Sequence 52, Appl	Sequence 52, Appl	Sequence 52, Appl
Sequence 11, Appl	Sequence 11, Appl	Sequence 11, Appl
Sequence 51, Appl	Sequence 51, Appl	Sequence 51, Appl
Sequence 2737, Ap	Sequence 2737, Ap	Sequence 2737, Ap
Sequence 52, Appl	Sequence 52, Appl	Sequence 52, Appl
Sequence 78, Appl	Sequence 78, Appl	Sequence 78, Appl
Sequence 2737, Ap	Sequence 2737, Ap	Sequence 2737, Ap
Sequence 52, Appl	Sequence 52, Appl	Sequence 52, Appl
Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl
Sequence 2737, Ap	Sequence 2737, Ap	Sequence 2737, Ap
Sequence 161, App	Sequence 161, App	Sequence 161, App
Sequence 87, Appl	Sequence 87, Appl	Sequence 87, Appl
Sequence 44, Appl	Sequence 44, Appl	Sequence 44, Appl

RESULT 1  
US-08-910-629A-31/C  
; Sequence 31, Application US/08910629A  
; Patent No. 5877309  
; GENERAL INFORMATION:  
; APPLICANT: Robert A. McKay  
; APPLICANT: Nicholas M. Dean  
; APPLICANT: Brett Monia  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE  
; COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 86  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Law Offices of Jane Massey Licata  
; STREET: 66 East Main Street  
; CITY: Marlton  
; STATE: NJ USA  
; ZIP: 08053  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB  
; MEDIUM TYPE: STORAGE  
; COMPUTER: PENTIUM  
; OPERATING SYSTEM: WINDOWS 95  
; SOFTWARE: WORDPERFECT 6.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910,629A  
; FILING DATE: August 13, 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane Massey Licata  
; REGISTRATION NUMBER: 32,257  
; REFERENCE/DOCKET NUMBER: ISP-H-0215  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (609) 779-2400  
; TELEFAX: (609) 779-8488  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20  
; TYPE: Nucleic Acid  
; SPANDENESS: Single  
; TOPOLOGY: Linear  
; ANTI-SENSE: Yes  
US-08-910-629A-31

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1300 GACTTGGCTGGCCGG 1317 ; FILE REFERENCE: ISPH-0336  
 1|||||111111111111111111 ; CURRENT APPLICATION NUMBER: US/09/209, 668A  
 Db 20 GACTTGGCTGGCCGG 3 ; CURRENT FILING DATE: 1998-12-10  
 ; NUMBER OF SEQ ID NOS: 25  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: antisense sequence  
 US-09-209-668-7

RESULT 2  
 Sequence 42, Application US/08910629A

GENERAL INFORMATION:  
 APPLICANT: Robert A. McKay  
 APPLICANT: Nicholas M. Dean  
 APPLICANT: Brett Monia  
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK PROTEINS  
 TITLE OF INVENTION: PROTEINS  
 NUMBER OF SEQUENCES: 86  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Law Offices of Jane Massey Licata  
 STREET: 66 East Main Street  
 CITY: Marlton  
 STATE: NJ  
 COUNTRY: USA

COMPUTER READABLE FORM:  
 ZITC: 08053  
 COMPUTER TYPE: DISKETTE, 3.5 INCH, 1.44 MB  
 MEDIUM TYPE: STORAGE  
 COMPUTER: PENTIUM  
 OPERATING SYSTEM: WINDOWS 95  
 SOFTWARE: WORDPERFECT 6.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/910,629A  
 FILING DATE: August 13, 1997  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane Massey Licata  
 REGISTRATION NUMBER: 32,257  
 REGISTRATION NUMBER: ISPH-0215  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (609) 779-2400  
 TELEFAX: (609) 779-8488  
 INFORMATION FOR SEQ ID NO: 42:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 20  
 TYPE: Nucleic Acid  
 STRANDEDNESS: Single  
 TOPOLOGY: Linear  
 ANTI-SENSE: No

Qy 1300 GACTTGGCTGGCCGG 1317 ; FILE REFERENCE: ISPH-0336  
 1|||||111111111111111111 ; CURRENT APPLICATION NUMBER: US/09/209, 668A  
 Db 1 GACTTGGCTGGCCGG 18 ; CURRENT FILING DATE: 1998-12-10  
 ; NUMBER OF SEQ ID NOS: 25  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: antisense sequence  
 US-09-209-668-7

RESULT 4  
 Sequence 31, Application US/09287796A

GENERAL INFORMATION:  
 APPLICANT: McKay, Robert A.  
 APPLICANT: Dean, Nicholas M.  
 APPLICANT: Monia, Brett  
 APPLICANT: Nero, Pam  
 APPLICANT: Gaarde, William A.  
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK PROTEINS  
 FILE REFERENCE: ISPH-0350  
 CURRENT APPLICATION NUMBER: US/09/287,796A  
 CURRENT FILING DATE: 1999-04-07  
 EARLIER APPLICATION NUMBER: 09/130, 616  
 EARLIER FILING DATE: 1998-08-07  
 EARLIER APPLICATION NUMBER: 08/910, 629  
 EARLIER FILING DATE: 1997-08-03  
 SEQ ID NO 31  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Synthetic Sequence  
 US-09-287-796-31

Query Match 0.9%; Score 18; DB 2; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 28; Mismatches 0; Indels 0; Gaps 0;

Qy 1300 GACTTGGCTGGCCGG 1317 ; FILE REFERENCE: ISPH-0336  
 1|||||111111111111111111 ; CURRENT APPLICATION NUMBER: US/09/209, 668A  
 Db 20 GACTTGGCTGGCCGG 3 ; CURRENT FILING DATE: 1998-12-10  
 ; NUMBER OF SEQ ID NOS: 25  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic Sequence  
 US-09-287-796-31

RESULT 5  
 Sequence 42, Application US/09287796A

GENERAL INFORMATION:  
 APPLICANT: McKay, Robert A.  
 APPLICANT: Dean, Nicholas M.  
 APPLICANT: Monia, Brett  
 APPLICANT: Nero, Pam  
 APPLICANT: Gaarde, William A.  
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK PROTEINS  
 FILE REFERENCE: ISPH-0350  
 CURRENT APPLICATION NUMBER: US/09/287,796A

RESULT 3  
 Sequence 7, Application US/09209668A

GENERAL INFORMATION:  
 PATENT NO. 6114517  
 APPLICANT: Monia, Brett P.  
 APPLICANT: Xu, Xiaoxing S.  
 TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR  
 TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES

CURRENT FILING DATE: 1999-04-07  
 EARLIER APPLICATION NUMBER: 09/130,616  
 EARLIER FILING DATE: 1998-08-07  
 EARLIER APPLICATION NUMBER: 08/910,629  
 EARLIER FILING DATE: 1997-08-03  
 NUMBER OF SEQ ID NOS: 165  
 SEQ ID NO 42  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Synthetic Sequence  
 S-09-287-796-42

Query Match 0.9%; Score 18; DB 3; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 28;  
 Matches 18; Conservative 0; Mismatches 0;  
 Gaps 0;  
 SEQ ID NO 1  
 GRCTTGGCTGGCCGG 1317

RESULT 6

S-09-130-616-31/c  
 Sequence 31, Application US/09130616C  
 Patent No. 6221850  
 GENERAL INFORMATION  
 APPLICANT: McKay, Robert A.  
 APPLICANT: Monia, Nicholas M.  
 APPLICANT: Nero, Pam  
 APPLICANT: Gaarde, William A.  
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS  
 FILE REFERENCE: ISPH-0318  
 CURRENT APPLICATION NUMBER: US/09/130,616C  
 CURRENT FILING DATE: 1998-08-07  
 EARLIER APPLICATION NUMBER: 08/910,629  
 EARLIER FILING DATE: 1997-08-03  
 NUMBER OF SEQ ID NOS: 178  
 SEQ ID NO 31  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Synthetic Sequence  
 S-09-130-616-31

Query Match 0.9%; Score 18; DB 4; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 28;  
 Matches 18; Conservative 0; Mismatches 0;  
 Gaps 0;

Y 1300 GACTTGGCTGGCCGG 1317  
 1|||||1|||||1|||||1|||  
 b 20 GACTTGGCTGGCCGG 3

RESULT 7

S-09-130-616-42  
 Sequence 42, Application US/09130616C  
 Patent No. 6221850  
 GENERAL INFORMATION  
 APPLICANT: McKay, Robert A.  
 APPLICANT: Monia, Nicholas M.  
 APPLICANT: Nero, Pam  
 APPLICANT: Gaarde, William A.  
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS  
 FILE REFERENCE: ISPH-0318  
 CURRENT APPLICATION NUMBER: US/09/130,616C  
 CURRENT FILING DATE: 1998-08-07  
 NUMBER OF SEQ ID NOS: 178  
 SEQ ID NO 42  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Synthetic Sequence  
 US-09-130-616-42

Query Match 0.9%; Score 18; DB 4; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 28;  
 Matches 17; Conservative 0; Mismatches 0;  
 Gaps 0;

Y 1300 GACTTGGCTGGCCGG 1317  
 1|||||1|||||1|||||1|||  
 b 1 GACTTGGCTGGCCGG 18

RESULT 8

US-08-730-876-2/c  
 Sequence 2, Application US/08730876  
 Patent No. 5859314  
 GENERAL INFORMATION:  
 APPLICANT: HIBBS, Margaret L.;  
 APPLICANT: DUNN, Ashley R.;  
 APPLICANT: GRAILL, Dianne;  
 APPLICANT: HODGSON George;  
 APPLICANT: MARLING, David M.;  
 APPLICANT: ARNES, Jane  
 TITLE OF INVENTION: ANIMALS WITH TARGETED GENE DELETION  
 NUMBER OF SEQUENCES: 7  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Felife & Lynch  
 STREET: 805 Third Avenue  
 CITY: New York City  
 STATE: New York  
 COUNTRY: USA  
 ZIP: 10022  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 inch, 1.44mb  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: PC-DOS  
 SOFTWARE: Wordperfect  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/730,876  
 FILING DATE: 18-Oct-1996  
 CLASSIFICATION: 800  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 60/005,578  
 FILING DATE: 20-Oct-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: No. 5559314 man D. Hanson  
 REGISTRATION NUMBER: 30,946  
 TELECOMMUNICATION NUMBER: LUD 5369 - JEL/NDH/SLH  
 TELEPHONE: (212) 688-9200  
 TELEFAX: (212) 838-3884  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 20 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-730-876-2

Query Match 0.8%; Score 17; DB 2; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 89;  
 Matches 17; Conservative 0; Mismatches 0;  
 Gaps 0;

Y 916 GGGAGTTGGAAAGT 932  
 1|||||1|||||1|||||1|||

Db 17 GGGCAGTTGGGAACT 1

RESULT 9  
US-09-490-692-71/c  
; Sequence 71, Application US/09490692  
; Patent No. 6180353  
; GENERAL INFORMATION:  
; APPLICANT: Nicholas M. Dean  
; TITLE OF INVENTION: ANTISENSE MODULATION OF DAXX EXPRESSION  
; FILE REFERENCE: RWS-0120  
; CURRENT FILING DATE: US/09/490,692  
; NUMBER OF SEQ ID NOS: 176  
; SEQ ID NO: 71  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide

Query Match 0.8%; Score 17; DB 4; Length 20;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 17; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

Qy 28 TCAGGAGATGATGAG 44  
Db 18 TCAGGAGATGATGAG 2

RESULT 10  
US-09-222-616-2/c  
; Sequence 2, Application US/08222516  
; Patent No. 5635177  
; GENERAL INFORMATION:  
; APPLICANT: Bennett, Brian D.  
; APPLICANT: Goeddel, David  
; APPLICANT: Lee, James M.  
; APPLICANT: Matthews, William  
; APPLICANT: Tsai, Siao Ping  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST ANTIBODIES  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 460 Point San Bruno Blvd  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94060  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Winpatin (Genentech)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/446,648  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 08/222616  
; FILING DATE: 04-APR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lee, Wendy M.  
; REGISTRATION NUMBER: 40,378  
; TELEPHONE: 415/225-1994  
; TELEFAX: 415/952-8881  
; TELEX: 910/371-7168  
; INFORMATION FOR SEQ ID NO: 2:  
; REFERENCE/DOCKET NUMBER: P0821P3PCT  
; TELECOMMUNICATION INFORMATION:  
; APPLICATION NUMBER: US/08/222,616  
; FILING DATE: 4-APR-1994  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/00586  
; FILING DATE: 22-JAN-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/826935  
; FILING DATE: 22-JAN-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lee, Wendy M.  
; REGISTRATION NUMBER:  
; TELECOMMUNICATION INFORMATION:

Query Match 0.8%; Score 17; DB 4; Length 23;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 17; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

Qy 1420 GAGCTCTGGCCCTTGG 1436  
 1|||||1|||||1|||||1  
 Db 23 GACGTCGTCCCTTGG 7

RESULT 12  
 PCT-US95-04228-2/C  
 ; Sequence 2, Application PC/TUSS9504228  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Genentech, Inc.  
 ; BENNETT, Brian D.  
 ; APPLICANT: Goeddel, David  
 ; APPLICANT: Lee, James M.  
 ; APPLICANT: Matthews, William  
 ; APPLICANT: Tsai, Siao Ping  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST ANTIBODIES  
 ; NUMBER OF SEQUENCES: 45  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Genentech, Inc.  
 ; STREET: 460 Point San Bruno Blvd  
 ; CITY: South San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94080  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patin (Genentech)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT-US95/04228  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/222616  
 ; FILING DATE: 04-APR-1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Wendy M. Lee  
 ; REGISTRATION NUMBER: 00,000  
 ; REFERENCE/DOCKET NUMBER: 821P3PCT  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415/925-1994  
 ; TELEFAX: 910/371-7168  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 23 bases  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; PCT-US95-04228-2

Query Match 0.8%; Score 17; DB 5; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 89;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1420 GAGCTCTGGCCCTTGG 1436  
 1|||||1|||||1|||||1  
 Db 23 GACGTCGTCCCTTGG 7

RESULT 13  
 US-09-506-073-82/C  
 ; Sequence 82, Application US/09506073  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Monia, Brett P.  
 ; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression  
 ; FILE REFERENCE:  
 ; CURRENT APPLICATION NUMBER: US/09/506,073  
 ; CURRENT FILING DATE: 2000-02-18  
 ; EARLIER APPLICATION NUMBER: US 09/143,214

Query Match 0.8%; Score 16; DB 4; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 155 GAGCGGCGGCCAGGAT 170  
 1|||||1|||||1|||||1  
 Db 20 GACGGGGGCCAGGAT 5

RESULT 14  
 US-08-559-998-598  
 ; Sequence 598, Application US/08855998  
 ; Patent No. 5994076  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Chenchik, Alex  
 ; Jokhadze, George  
 ; APPLICANT: Bibilashvili, Robert  
 ; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
 ; TITLE OF INVENTION: EXPRESSION  
 ; NUMBER OF SEQUENCES: 1375  
 ; CORESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fish & Richardson, P.C.  
 ; STREET: 2200 Sand Hill Road, Suite 100  
 ; CITY: Menlo Park  
 ; STATE: CA  
 ; COUNTRY: US  
 ; ZIP: 94025  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: Windows95  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/859,998  
 ; FILING DATE: 21-MAY-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Field, Bret E.  
 ; REGISTRATION NUMBER: 37,620  
 ; REFERENCE/DOCKET NUMBER: 09096/002001  
 ; TELEPHONE: 415-322-5070  
 ; TELEFAX: 415-854-0875  
 ; INFORMATION FOR SEQ ID NO: 598:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 24 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA

;

FEATURE:  
; OTHER INFORMATION: oligonucleotide primer  
US-08-859-998-598

Query Match      0.8%; Score 16; DB 2; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1236 CATCCACCGAGACCTC 1251  
Db 8 CATCCACCGAGACCTC 23

## RESULT 15

US-09-225-928-598

Sequence 598, Application US/09225928  
Patent No. 6352829

GENERAL INFORMATION:

APPLICANT: Chenchik, Alex  
Johadze, George  
Bibilashvili, Robert

TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL EXPRESSION

NUMBER OF SEQUENCES: 1375

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025

COMPUTER READABLE FORM:

COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/225, 928  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/859, 998  
FILING DATE: 21-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Field, Brett E.  
REGISTRATION NUMBER: 37, 620  
REFERENCE/DOCKET NUMBER: 09096/002001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-522-5070  
TELEFAX: 415-854-0875

INFORMATION FOR SEQ ID NO: 598:

SEQUENCE CHARACTERISTICS:

LENGTH: 24 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA

FEATURE:

OTHER INFORMATION: oligonucleotide primer  
SEQUENCE DESCRIPTION: SEQ ID NO: 598:  
US-09-225-928-598

Query Match      0.8%; Score 16; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1236 CATCCACCGAGACCTC 1251  
Db 8 CATCCACCGAGACCTC 23

Search completed: July 4, 2003, 10:39:34  
Job Time : 100 secs



AUTHORS: Hanafusa, Hidesaburo  
 TITLE: Structure and Sequence of the  
 Cellular Gene Homologous to the RSV src  
 TITLE: Gene and the Mechanism for Generating the  
 Transforming Virus  
 JOURNAL: Cell  
 VOLUME: 32  
 PAGES: 881-890  
 DATE: March, 1983  
 US-07-820-01A-1

Query Match 1.3%; Score 26; DB 1; Length 1602;  
 Best Local Similarity 100.0%; Pred. No. 0.0032;  
 Matches 26; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

QY 1354 GCCAAGTCCCCATCAAGTGACAGC 1379  
 Db 1264 GCCAAGTCCCCATCAAGTGACAGC 1289

RESULT 2  
 PCT-US93-00445-1  
 Sequence 1 Application PC/TUS9300445

GENERAL INFORMATION:  
 APPLICANT: Bell, Leonard  
 APPLICANT: Madri, Joseph A.  
 APPLICANT: Warren, Stephen L.  
 APPLICANT: Lutherfinger, Daniel J.  
 TITLE OF INVENTION: Genetically Engineered  
 TITLE OF INVENTION: Endothelial Cells  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Maurice M. Klee  
 STREET: 1951 Burr Street  
 CITY: Fairfield  
 STATE: Connecticut  
 ZIP: 06430

ATTORNEY/AGENT INFORMATION:

NAME: Klee, Maurice M.

REGISTRATION NUMBER: 30,399

REFERENCE/DOCKET NUMBER: ALX-101PCT

FILING DATE: 06-JAN-1992

TELEPHONE: (203) 255 1400

TELEFAX: (203) 254 1101

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1602 base pairs

TYPE: NUCLEIC ACID

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA to mRNA

HYPOTHETICAL: No

ANTI-SENSE: No

ORIGINAL SOURCE:

ORGANISM: Gallus, gallus

PUBLICATION INFORMATION:

AUTHORS: Takeya, Tatsuo

AUTHORS: Hanafusa, Hidesaburo

TITLE: Structure and Sequence of the

RSV src

AUTHORS: Hanafusa, Hidesaburo  
 TITLE: Gene and the Mechanism for Generating the

Transforming Virus  
 JOURNAL: Cell  
 VOLUME: 32  
 PAGES: 881-890  
 DATE: March, 1983  
 PCT-US93-00445-1

Query Match 1.3%; Score 26; DB 1; Length 1602;  
 Best Local Similarity 100.0%; Pred. No. 0.0032;  
 Matches 26; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

QY 1354 GCCAAGTCCCCATCAAGTGACAGC 1379  
 Db 1264 GCCAAGTCCCCATCAAGTGACAGC 1289

RESULT 3  
 US-08-456-647B-25  
 Sequence 25, Application US/08456647B  
 Patent No. 5811516

GENERAL INFORMATION:  
 APPLICANT: Lemke Ph.D. et al., Greg E.  
 TITLE OF INVENTION: PROTEIN-TYROSTE KINASE GENES

NUMBER OF SEQUENCES: 54

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.  
 STREET: 4225 Executive Square, Suite 1400  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: US

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/456,647B

FILING DATE: 02-JUN-1995

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/237,401

FILING DATE: 02-MAY-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/884,486

FILING DATE: 15-MAY-1992

ATTORNEY/AGENT INFORMATION:

NAME: Wetherell, Ph.D., John R.

REGISTRATION NUMBER: 31,678

REFERENCE/DOCKET NUMBER: 07/251/007002

TELECOMMUNICATION INFORMATION:

PHONE: (619) 678-5070

TELEFAX: (619) 678-5099

INFORMATION FOR SEQ ID NO: 25:

SEQUENCE CHARACTERISTICS:

LENGTH: 147 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

IMMEDIATE SOURCE:

CLONE: Tyro-13

FEATURE:

NAME/KEY: CDS

LOCATION: 1..147

Query Match 1.1%; Score 23; DB 1; Length 147;  
 Best Local Similarity 100.0%; Pred. No. 0.094;  
 Matches 23; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

QY 1367 TCAGTTGGCAGCTCTGAAGCC 1389

Db      ||||||| 95 TCAAGTGGACAGCTCCCTGAAGCC 117

## RESULT 4

US-08-237-401A-25

; Sequence 25, Application US/08237401A  
; Patent No. 5837448  
; GENERAL INFORMATION:  
; APPLICANT: Lemke Ph.D. et al., Greg E.  
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.

; STREET: 4225 Executive Square, Suite 1400  
; CITY: La Jolla  
; STATE: CA  
; ZIP: 92037

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/237,401A  
; FILING DATE: 02-MAY-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/884,486  
; FILING DATE: 15-MAY-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Haile Ph.D., Lisa A.  
; REGISTRATION NUMBER: 38,347  
; REFERENCE/DOCKET NUMBER: 07251/007001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 578-5070  
; TELEFAX: (619) 678-5039

; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 147 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; IMMEDIATE SOURCE:  
; CLONE: Tyro-13  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..147  
; US-08-237-401A-25

Query Match      1.1%; Score 23; DB 2; Length 147;  
Best Local Similarity 100.0%; Pred. No. 0.094%;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

## RESULT 5

US-08-106-691B-29

; Sequence 29, Application US/08306691B  
; Patent No. 5734039  
; GENERAL INFORMATION:  
; APPLICANT: Calabretta, Bruno  
; APPLICANT: Skorski, Tomasz  
; TITLE OF INVENTION: ANTISENSE  
; NUMBER OF SEQUENCES: 55  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Seidel, Gonda, Lavorgna & Monaco, P.C.

## RESULT 6

PCT-US93-06251-71

; Sequence 71, Application PC/TUS9306251  
; GENERAL INFORMATION:  
; APPLICANT: Wickstrom, Eric and Rife, Jason P.  
; TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing Stereospecific Alkylphosphonates and Arylphosphonates  
; NUMBER OF SEQUENCES: 93  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: NY USA  
; ZIP: 11530

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/06251  
; FILING DATE: 19930630  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: DiGiglio, Frank S.  
; REGISTRATION NUMBER: 31,346  
; REFERENCE/DOCKET NUMBER: 8586  
; TELECOMMUNICATION INFORMATION:  
; NUMBER: 516-742-4343  
; TELEPHONE: 516-742-4343  
; TELEFAX: 516-742-4366

; STREET: Two Penn Center, Suite 1800  
; CITY: Philadelphia  
; STATE: Pennsylvania  
; COUNTRY: U.S.A.  
; ZIP: 19102

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 720 kb  
; COMPUTER: IBM PS/2  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: Wordperfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/306,691B  
; FILING DATE: September 15, 1994  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Monaco, Daniel A.  
; REGISTRATION NUMBER: 30,480  
; REFERENCE/DOCKET NUMBER: 8321-8  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 568-8883  
; TELEFAX: (215) 568-5549  
; TELEX: No. 5734038e  
; INFORMATION FOR SEQ ID NO: 29:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 170 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; US-08-306-691B-29

Query Match      1.1%; Score 23; DB 1; Length 170;  
Best Local Similarity 100.0%; Pred. No. 0.095%;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      862 GATGCCCTGGAGATCCCTGGGA 884  
Db      87 GATGCCCTGGAGATCCCTGGGA 109

TELEX: 230 901 SANS UR  
 SEQUENCE FOR SEQ ID NO: 71:  
 LENGTH: 170 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 PCT-US93-0651-71

Query Match 7  
 Best Local Similarity 100.0%; Pred. No. 0.095; Length 170;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 862 GATGCCGGAGATCCTCGGGA 884  
 Db 87 GATGCCGGAGATCCTCGGGA 109

RESULT 7  
 Sequence from 3 Application US/07820011A  
 Patent No. 5336615

GENERAL INFORMATION:  
 APPLICANT: Bell, Leonard  
 APPLICANT: Madri, Joseph A.  
 APPLICANT: Warren, Stephen L.  
 APPLICANT: Luttringer, Daniel J.  
 TITLE OF INVENTION: Genetically Engineered  
 Endothelial Cells Exhibiting Enhanced  
 Migration

TITLE OF INVENTION: and Plasminogen Activator Activity  
 NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Maurice M. Klee  
 STREET: 1951 Burr Street  
 CITY: Fairfield  
 STATE: Connecticut  
 COUNTRY: USA  
 ZIP: 06430

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 5.25 inch, 360 Kb storage  
 COMPUTER: IBM PC XT  
 OPERATING SYSTEM: PC-DOS/MS-DOS 2.10  
 SOFTWARE: Displaywrite 3

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/820,011A  
 FILING DATE: 19920106  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Klee, Maurice M.  
 REGISTRATION NUMBER: 30,399  
 REFERENCE/DOCKET NUMBER: LB-101  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (203) 255 1400  
 TELEFAX: (203) 254 1101  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1611  
 TYPE: NUCLEIC ACID  
 STRANDEDNESS: Double  
 TOPOLOGY: Linear  
 MOLECULE TYPE: cDNA to mRNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapien  
 POSITION IN GENOME:  
 CHROMOSOME SEGMENT: Chromosome 20  
 PUBLICATION INFORMATION:  
 AUTHORS: Anderson, Stephen K.  
 AUTHORS: Gibbs, Carol P.  
 AUTHORS: Tanaka, Akio

AUTHORS: Kung, Hsing-Jien  
 AUTHORS: Fujita, Donald J.  
 TITLE: Human Cellular src Gene:  
 Nucleotide Sequence and Derived Amino  
 Acid Sequence of the Region Coding for  
 the Carboxy-Terminal Two-Thirds of  
 pp65c-src  
 JOURNAL: Molecular and Cellular Biology  
 VOLUME: 5  
 ISSUE: 5  
 PAGES: 1122-1129  
 DATE: MAY 1985  
 PUBLICATION INFORMATION:  
 AUTHORS: Tanaka, Akio  
 AUTHORS: Gibbs, Carol P.  
 AUTHORS: Arthur, Richard R.  
 AUTHORS: Anderson, Stephen K.  
 AUTHORS: Kung, Hsing-Jien  
 AUTHORS: Fujita, Donald J.  
 TITLE: DNA Sequence Encoding the  
 Amino-Terminal Region of the Human c-src  
 Protein: Implications of Sequence  
 Divergence among src-Type Kinase  
 Oncogenes  
 JOURNAL: Molecular and Cellular Biology  
 VOLUME: 7  
 ISSUE: 5  
 PAGES: 1978-1983  
 DATE: May, 1987  
 US-07-820-011A-3

Query Match 8  
 Best Local Similarity 100.0%; Pred. No. 0.099;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 862 GATGCCGGAGATCCTCGGGA 884  
 Db 781 GATGCCGGAGATCCTCGGGA 803

RESULT 8  
 PCT-US93-00445-3  
 Sequence 3, Application PC/TUS9300445  
 GENERAL INFORMATION:  
 APPLICANT: Bell, Leonard  
 APPLICANT: Madri, Joseph A.  
 APPLICANT: Warren, Stephen L.  
 APPLICANT: Luttringer, Daniel J.  
 TITLE OF INVENTION: Genetically Engineered  
 Endothelial Cells  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Maurice M. Klee  
 STREET: 1951 Burr Street  
 CITY: Fairfield  
 STATE: Connecticut  
 COUNTRY: USA  
 ZIP: 06430  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 inch, 760 Kb storage  
 COMPUTER: DELL 486/50  
 OPERATING SYSTEM: DOS 5.0  
 SOFTWARE: Displaywrite 3  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US93/00445  
 FILING DATE: 19920105  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/820,011  
 FILING DATE: 06-JAN-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Klee, Maurice M.  
 REGISTRATION NUMBER: 30,399



ADDRESSEE: LEGAL AFFAIRS  
 STREET: 87 CambridgePark Drive  
 CITY: Cambridge  
 STATE: MA  
 ZIP: 02140  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/08493  
 FILING DATE:  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brown, Scott A.  
 REGISTRATION NUMBER: 32,724  
 REFERENCE/DOCKET NUMBER: G15234A  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 498-8224  
 TELEX: (617) 876-5551  
 INFORMATION FOR SEQ ID NO: 12:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3398 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 121..2961  
 PCT/US95/08493-12

Query Match 12 US-08-093-383-2/C  
 Best Local Similarity 100.0%; Pred. No. 1;  
 Matches 21; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

Qy 1290 TAAGATGGTGACTTGGCT 1310  
 Db 2568 TAAGATGGTGACTTGGCT 2588

RESULT 12  
 US-08-093-383-2/C  
 Sequence 2, Application US/08093383  
 Patent No. 5489329

GENERAL INFORMATION:  
 APPLICANT: Deboer, Herman A.  
 APPLICANT: Heyneker, Herbert L.  
 APPLICANT: Seeburg, Peter H.  
 TITLE OF INVENTION: DNA for Expression of Bovine Growth Hormone  
 NUMBER OF SEQUENCES: 30  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Genentech, Inc.  
 STREET: 460 Point San Bruno Blvd  
 CITY: South San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94080

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patin (Genentech)

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/093,383  
 FILING DATE: 14-JUL-1993  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/619827  
 FILING DATE: 28-NOV-1990

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/198824  
 FILING DATE: 05-APR-1988  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 06/62361  
 FILING DATE: 19-JUL-1984  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 06/303687  
 FILING DATE: 18-SEP-1981  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Johnston, Sean A.  
 REGISTRATION NUMBER: P35,910  
 REFERENCE/DOCKET NUMBER: 46C4  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415/225-3562  
 TELEFAX: 415/952-9881  
 TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 579 bases  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear

US-08-093-383-2

Query Match 13 US-08-07-733A-3  
 Best Local Similarity 100.0%; Pred. No. 3;  
 Matches 20; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

Qy 56 GATGAAGAGCATGACGAGCA 75  
 Db 67 GATGAAGAGCATGACGAGCA 48

RESULT 13  
 US-08-07-733A-3  
 Sequence 3, Application US/08707793A  
 Patent No. 5776696

GENERAL INFORMATION:  
 APPLICANT: SALOKE, SCOTT P.  
 TITLE OF INVENTION: A HIGH THROUGHPUT ASSAY USING  
 NUMBER OF SEQUENCES: 17  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Merck & Co., Inc.  
 STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
 CITY: Rahway  
 STATE: NJ  
 COUNTRY: USA  
 ZIP: 07065-0900

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/7707,793A  
 FILING DATE: 04-SEP-1996  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Camara, Valerie J.  
 REGISTRATION NUMBER: 35,090  
 REFERENCE/DOCKET NUMBER: 19494  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 908-394-3502  
 TELEFAX: 908-594-4720

INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 675 base pairs

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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: Genomic DNA
US-08-707-792A-3

Query Match          1.0%;  Score 20;  DB 1;  Length 675;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0;

Qy      688 GTGAAACATTACAGATCCG 707
          ||||| ||||| ||||| ||||| 545
Db      526 GTGAAACATTACAAGATCCG 545

RESULT 14
US-08-707-792A-3
Sequence 3, Application US/08/07/792A
Patent No. 5783398

GENERAL INFORMATION:
APPLICANT: MARCY, ALICE
APPLICANT: SALOWE, SCOTT P.
APPLICANT: WISNIOWSKI, DOUGLAS
TITLE OF INVENTION: A HIGH THROUGHPUT ASSAY USING
TITLE OF INVENTION: A HIGH THROUGHPUT ASSAY USING
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSOLO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/707,792A
FILING DATE: 04-SEP-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Camara, Valerie J
REGISTRATION NUMBER: 35,090
REFERENCE/DOCKET NUMBER: 19524
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-394-3302
TELEFAX: 908-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 675 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: Genomic DNA
US-08-07/792A-3

Query Match          1.0%;  Score 20;  DB 1;  Length 675;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0;

Qy      688 GTGAAACATTACAGATCCG 707
          ||||| ||||| ||||| ||||| 545
Db      526 GTGAAACATTACAAGATCCG 545

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Sequence 1, Application US/09099053
Patent No. 6388063

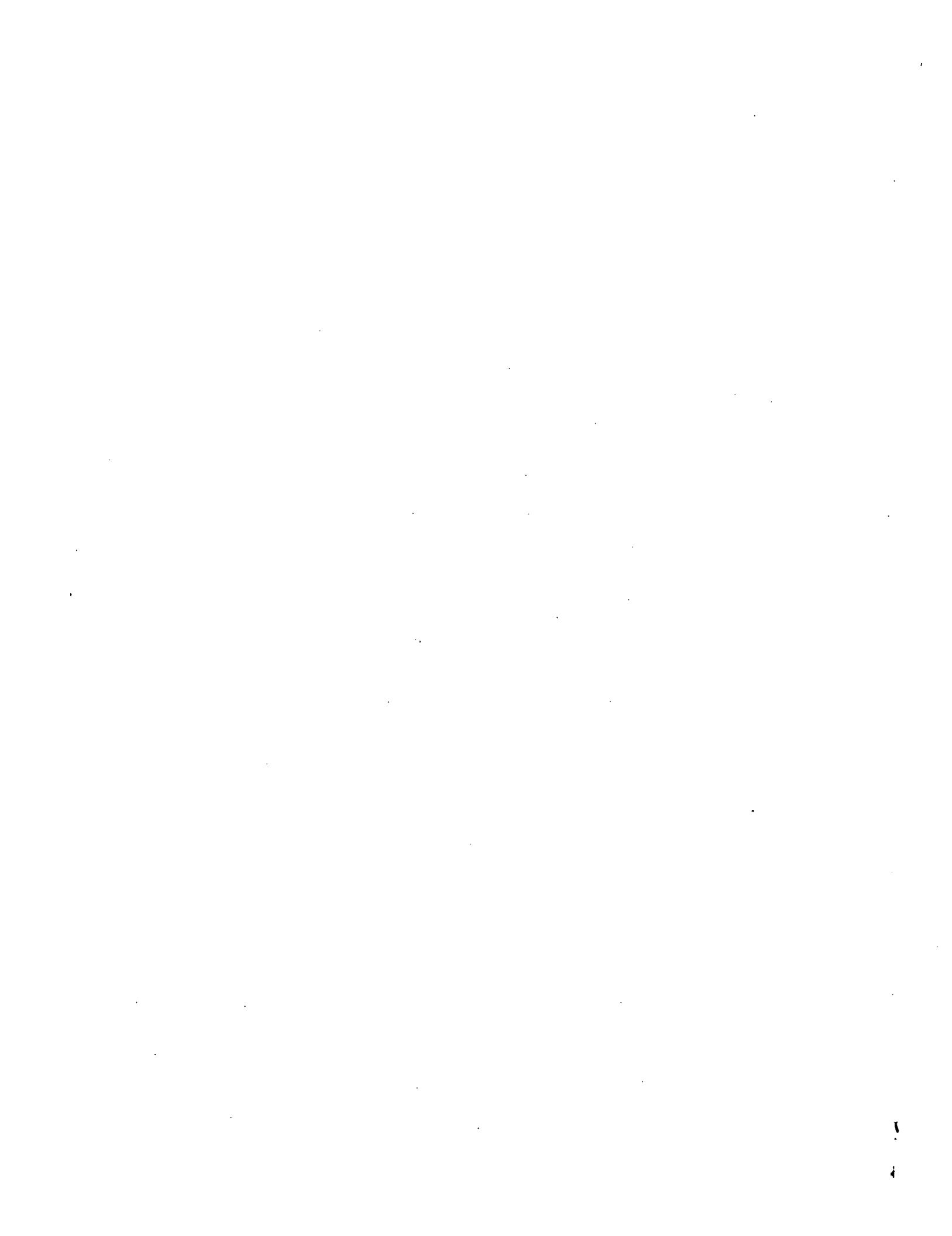
GENERAL INFORMATION:
APPLICANT: Greg Plowman
APPLICANT: Susan Onrust
APPLICANT: David Markby
APPLICANT: Sara Courtenidge
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
TITLE OF INVENTION: SAD RELATED DISORDERS
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/099,053
FILING DATE: herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/049,914
FILING DATE: June 18, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCENT NUMBER: 235/121
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1548 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-099-053-1

Query Match 1.04; Score 20; DB 4;
Best Local Similarity 100.0%; Pred. No. 3.1; Mismatches 0
Matches 20; Conservative 0; Mismatches 0

Qy 1414 AAGTCAGCTGTCGGTCTT 1433
Db 1264 AAGTCAGCTGTCGGTCTT 1283

Search completed: July 4, 2003, 04:49:24
Job time : 127 secs

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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## OM nucleic - nucleic search, using sw model

Run on: July 4, 2003, 04:49:28 ; Search time 5237 Seconds  
(without alignments)  
1197.662 Million cell updates/sec

Title: US-10-007-010-3

Perfect score: 2015

Sequence: 1 cggaggcacggagatgagg.....atataaaatgcaagtcttacg 2015

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 2054640 seqs, 14551402878 residues

Word size : 0

Total number of hits satisfying chosen parameters: 995600

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Listing first 45 summaries

	Result No.	Score	Query Match	Length	DB ID	Description
	1	26	1.3	72	14	ALRSRCB
	2	25	1.2	51	6	AX165171 Sequence
	3	18	0.9	19	6	AX129247 Sequence
	4	18	0.9	20	6	AR110470 Sequence
	5	18	0.9	20	6	AR116450 Sequence
	6	18	0.9	20	6	AR116461 Sequence
	7	18	0.9	20	6	AX104119 Sequence
	8	18	0.9	20	6	AX164692 Sequence
	9	18	0.9	20	6	AX35435 Sequence
	10	18	0.9	48	6	AX427069 Sequence
	11	18	0.9	51	6	AX421068 Sequence
	12	17	0.8	19	9	AF339072 Cheirogal
	13	17	0.8	20	6	AR029423 Sequence
	14	17	0.8	20	6	AR126642 Sequence
	15	17	0.8	21	6	AX201544 Sequence
	16	17	0.8	23	6	I44506 Sequence
	17	17	0.8	57	6	AX179479 Sequence
	18	17	0.8	63	9	AF339072 Pan trogl
	19	17	0.8	63	9	AF339077 Pan trogl
	20	17	0.8	71	4	AF055530 Didelphis
	21	16	0.8	22	6	AX465576 Sequence
	22	16	0.8	24	6	AR00478 Sequence
	23	16	0.8	24	6	AR197513 Sequence
	24	16	0.8	64	6	A67729 HSU8ASNR
	25	16	0.8	71	9	X97582 H.sapiens s
	26	15	0.7	18	6	AR190730 Sequence
	27	15	0.7	19	6	I77125 Sequence
	28	15	0.7	31	6	AR069592 Sequence
	29	15	0.7	31	6	AX249143 Sequence
	30	15	0.7	31	6	AX249144 Sequence
	31	15	0.7	31	6	AX249145 Sequence
	32	15	0.7	31	6	AX249146 Sequence
	33	15	0.7	31	6	AX249147 Sequence
	34	15	0.7	36	6	AX069497 Sequence
	35	15	0.7	36	6	AX069498 Sequence
	36	15	0.7	43	6	AX141093 Sequence
	37	15	0.7	43	6	AX146983 Sequence
	38	15	0.7	44	6	AX473094 Sequence
	39	15	0.7	45	6	AR028569 Sequence
	40	15	0.7	48	6	A18448 Oligonucleo
	41	15	0.7	51	6	AX129179 Sequence
	42	15	0.7	51	6	AX159180 Sequence
	43	15	0.7	51	6	AX192202 Sequence
	44	15	0.7	60	6	AX455886 Sequence
	45	15	0.7	65	6	AX482877 Sequence

## SUMMARIES

RESULT 1  
ALRSRCB  
LOCUS Rous sarcoma virus (RSV) ss-RNA  
DEFINITION 72 bp ss-RNA src gene, partial  
ACCESSION J02351  
VERSION 1 GI:210266  
KEYWORDS c-myc proto-oncogene; kinase; src oncogene.  
SOURCE Rous sarcoma virus (Prague A strain) DNA, clones pCH1,pCH7 & pCH20.  
ORGANISM Rous sarcoma virus  
Viruses; Retroviridae; Alpharetrovirus.  
REFERENCE 1 (bases 1 to 72)  
AUTHORS Bryant,D. and Parsons,J.T.  
TITLE Site-directed point mutation in the src gene of rous sarcoma virus  
JOURNAL J. Virol. 45 (3), 1211-1216 (1983)

Pred. No. is the number of results predicted by chance to have a

83164366	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
PUBMED 6300458	COMMENT A 'g' to 'a' transition at base 55 results in the incorporation of Thr instead of Ala at amino acid 433. This change decreases the protein kinase activity of the product and abolishes the pp60-src mediated cellular transformation activity.
FEATURES source CDS	Location/Qualifiers 1..72 Organism="Rous sarcoma virus" /db_xref="taxon:11886" <1..>72 /note="v-src protein" /codon_start=1 /protein_id="AAA442584.1" /db_xref="GI:210267" /translation="EYTRQGAKFPIKWTAAPEALYGR"
BASE COUNT ORIGIN	52 bp upstream of BglI site.
Query Match	1..3%; Score 26; DB 14; Length 72;
Best Local Similarity 100.0%	Pred. No. 0.012; Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1354 GCCAAGTTCCCATCAAGTGACAGC 1379         22 GCCAAGTTCCCATCAAGTGACAGC 47
Dbb	AX165171 AX165171 51 bp DNA linear PAT 22-JUN-2001
RESULT 2	Sequence 366 from Patent WO0138586.
LOCUS	AX165171
DEFINITION	Sequence 366 from Patent WO0138586.
VERSION	AX165171
KEYWORDS	GI:14546000
ORGANISM	Human. Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 51)
TITLE	Shimkets, R.A. and Leach, M.
JOURNAL	Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
FEATURES source variation	Patent: WO 0138586-A 366 31-MAY-2001; Curagen Corporation (US) Location/Qualifiers 1..51 /organism="Homo sapiens" /db_xref="taxon:9606" /note="single nucleotide polymorphism Accession number cg42665067" 10 a 17 c 13 g 11 t
BASE COUNT ORIGIN	1..51; Score 25; DB 6; Length 51;
Query Match	Best Local Similarity 100.0%; Pred. No. 0.045; Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	722 GGGGCTTCATATCCCGGAAG 746         1 GGGGCTTCATATCCCGGAAG 25
Dbb	AX129247 AX129247 19 bp DNA linear PAT 15-MAY-2001
RESULT 3	Sequence 465 from Patent WO0130362.
LOCUS	AX129247
DEFINITION	Sequence 465 from Patent WO0130362.
VERSION	AX129247.1
KEYWORDS	GI:14135522 Human. Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	Robbins, J.M. and Tritz, R.
TITLE	Ribozyme therapy for the treatment of proliferative skin and eye diseases
JOURNAL	Patent: WO 0130322-A 465 03-MAY-2001; IMMUSOL, INC. (US)
FEATURES source	Location/Qualifiers 1..19 /organism="Homo sapiens" /db_xref="taxon:3606" /note="dk4 ribozyme binding site"
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Query Match	0.9%; Score 18; DB 6; Length 19;
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Qy	1297 GCTGACTTGGCCGCC 1314         2 GCTGACTTGGCCGCC 19
Dbb	AR110470/c AR110470 20 bp DNA linear PAT 14-FBB-2001
RESULT 4	Sequence 7 from patent US 6114517.
LOCUS	AR110470
DEFINITION	Sequence 7 from patent US 6114517.
VERSION	AR110470
KEYWORDS	GI:12826746
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 20)
AUTHORS	Monia, B.P. and Xu, X.S.
TITLE	Methods of modulating tumor necrosis factor alpha - induced expression of cell adhesion molecules
JOURNAL	Patent: US 6114517-A 7 05-SEP-2000;
FEATURES source	Location/Qualifiers 1..20 /organism="unknown"
BASE COUNT ORIGIN	4 a 7 c 7 g 2 t
Query Match	0.9%; Score 18; DB 6; Length 20;
Best Local Similarity 100.0%	Pred. No. 4.8e+02; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1300 GACTTGGCTTGGCCGG 1317         20 GACTTGGCTTGGCCGG 3
Dbb	AR116450/c AR116450 20 bp DNA linear PAT 16-MAY-2001
RESULT 5	Sequence 31 from patent US 6133246.
LOCUS	AR116450
DEFINITION	Sequence 31 from patent US 6133246.
VERSION	AR116450
KEYWORDS	GI:14096772
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 20)
AUTHORS	McTay, R., Dean, N., Monia, B.P., Nero, P.S. and Gaarde, W.A.
TITLE	Antisense oligonucleotide compositions and methods for the modulation of JNK proteins
JOURNAL	Patent: US 6133246-A 31 17-OCT-2000;
FEATURES source	Location/Qualifiers 1..20 /organism="unknown"

BASE COUNT 4 a 7 c 7 g 2 t ORIGIN

Query Match 0.9%; Score 18; DB 6; Length 20;  
Best Local Similarity 100.0%; Pred. No. 4.8e+02;  
Matches 18; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

QY 1300 GACTTGCTGGCCGG 1317  
Db 20 GACTTGCTGGCCGG 3

RESULT 6  
AR116461 LOCUS AR116461 Sequence 42 from patent US 6133246. linear PAT 16-MAY-2001  
DEFINITION Antisense Oligonucleotide compositions and methods for the modulation of JNK proteins  
ACCESSION AR116461  
VERSION AR116461.1 GI:14096783  
KEYWORDS SOURCE Unknown.  
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 20)  
AUTHORS McKay,R., Dean,N., Monia,B.P., Nero,P.S. and Gaarde,W.A.  
TITLE Antisense Oligonucleotide compositions and methods for the modulation of JNK proteins  
JOURNAL Patent: US 6133246-A 42 17-OCT-2000;  
FEATURES Location/Qualifiers 1..20  
SOURCE /organism="unknown"  
BASE COUNT 2 a 7 c 7 g 4 t ORIGIN

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Matches 18; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

QY 1300 GACTTGCTGGCCGG 1317  
Db 1 GACTTGCTGGCCGG 18

RESULT 7  
AX104119/c LOCUS AX104119 Sequence 311 from Patent WO122972. linear PAT 30-APR-2001  
DEFINITION AX104119  
ACCESSION AX104119.1 GI:13920316  
VERSION  
KEYWORDS SOURCE synthetic construct.  
ORGANISM synthetic construct.  
artificial sequences.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Krieg,A.M., Schetter,C. and Vollmer,J.C.  
TITLE Immunostimulatory nucleic acids  
PATENT: WO 0122972-A 311 05-APR-2001;  
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical GmbH (DE)  
FEATURES Location/Qualifiers 1..20  
source /organism="synthetic construct"  
/db\_xref="taxon:32630"

BASE COUNT 4 a 7 c 7 g 2 t ORIGIN

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Matches 18; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

QY 1300 GACTTGCTGGCCGG 1317  
Db 20 GACTTGCTGGCCGG 3

RESULT 8  
AX164692/c LOCUS AX164692 Sequence 2 from Patent WO0134792. linear PAT 22-JUN-2001  
DEFINITION AX164692  
ACCESSION AX164692.1 GI:14545586  
VERSION  
KEYWORDS SOURCE synthetic construct.  
ORGANISM synthetic construct.  
artificial sequences.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Potapova,O., Gorospe,M. and Holbrook,N.J.  
TITLE Compositions and methods for the diminution or elimination of various cancers  
JOURNAL Patent: WO 0134792-A 2 17-MAY-2001;  
THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES (US)  
FEATURES Location/Qualifiers 1..20  
source /organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="Synthetic construct"

BASE COUNT 4 a 7 c 7 g 2 t ORIGIN

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Matches 18; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

QY 1300 GACTTGCTGGCCGG 1317  
Db 20 GACTTGCTGGCCGG 3

RESULT 9  
AX355435/c LOCUS AX355435 Sequence 463 from Patent WO0197843. linear PAT 06-FEB-2002  
DEFINITION AX355435  
ACCESSION AX355435.1 GI:18620103  
VERSION  
KEYWORDS SOURCE synthetic construct.  
ORGANISM synthetic construct.  
artificial sequences.  
REFERENCE 1  
AUTHORS Weiner,G. and Hartmann,G.  
TITLE Methods for enhancing antibody-induced cell lysis and treating cancer  
JOURNAL Patent: WO 0197843-A 463 27-DEC-2001;  
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)  
FEATURES Location/Qualifiers 1..20  
source /organism="synthetic construct"  
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/note="Synthetic oligonucleotide-phosphorothioate backbone,"

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Matches 18; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

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Db 20 GACTTGCTGGCCGG 3

RESULT 10  
AX427069/c LOCUS AX427069 Sequence 33 from Patent WO0196604. linear PAT 18-JUN-2002  
DEFINITION AX427069  
ACCESSION AX427069



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Best Local Similarity	100.0%	Pred. No.	1.8e+03	;	Mismatches	0;	Indels	0;	Gaps	0;
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<b>LOCUS</b>	AX201544	Sequence	223	from Patent	WO153486					
<b>DEFINITION</b>										
<b>ACCESSION</b>	AX201544									
<b>VERSION</b>	AX201544.1	GT:15391386								
<b>KEYWORDS</b>										
<b>SOURCE</b>	synthetic construct.									
<b>ORGANISM</b>	synthetic construct.									
	artificial sequences.									
<b>REFERENCE</b>	1 (bases 1 to 21)									
<b>AUTHORS</b>	Ashkenazi,A.J., Goddard,A., Gurney,A.L., Hillian,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V., Stone,D.M., Watanabe,C.K. and Wood,W.I..									
<b>TITLE</b>	Compositions and methods for the treatment of tumour									
<b>JOURNAL</b>	Patent: WO 0153486 A 223 26-JUL-2001; Genentech, Inc. (US)									
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Search completed: July 4, 2003, 08:32:26  
Job time : 5240 secs



Result No.	Score	Query	Match	Length	DB	ID	Description	SUMMARIES
1	18	0.9	93	10	AW238943	AW238943	93 bp mRNA linear EST 13-DEC-1999	%
c	2	17	0.8	52	12	BF636617	LOCUS xb29h03.y1 NCI-NCAP-Lu31 Homo sapiens cDNA clone IMAGE:257749 5'	
	3	16	0.8	53	13	BJ048171	DEFINITION similar to qb:X:12597 HIGH MOBILITY GROUP PROTEIN HMGB1 (HUMAN)	
	4	16	0.8	56	17	AZ0600E22	); contains element THR repetitive element ; mRNA sequence.	
	5	16	0.8	64	9	AA117806	ACCESSION AW238943.1	
	6	16	0.8	66	9	AI906791	VERSION AW238943.1	
							COMMENT GI:5571333	JOURNAL
							Other ESTs: xb29h03.x1	COMMENT
							Contact: Robert Strausberg, Ph.D. Email: cgaps-r@mail.nih.gov	COMMENT
							Tissue Procurement: ATCC cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The	
							I.M.A.G.E. Consortium DNA Sequencing Center: Washington University Genome Sequencing Center	
							Clone distribution: NCI-NCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbcrp/image/image.html	
							Seq primer: -40RP from Gibco	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## RESULT 1

AW238943 LOCUS xb29h03.y1 NCI-NCAP-Lu31 Homo sapiens cDNA clone IMAGE:257749 5' , Tissue

DEFINITION similar to qb:X:12597 HIGH MOBILITY GROUP PROTEIN HMGB1 (HUMAN)

); contains element THR repetitive element ; mRNA sequence.

ACCESSION AW238943

VERSION AW238943.1

COMMENT GI:5571333

COMMENT Unpublished (1997)

COMMENT Other ESTs: xb29h03.x1

COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaps-r@mail.nih.gov

COMMENT Tissue Procurement: ATCC cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The

COMMENT I.M.A.G.E. Consortium DNA Sequencing by: Washington University

COMMENT Genome Sequencing Center: Washington University  
COMMENT Clone distribution: NCI-NCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbcrp/image/image.html

Seq primer: -40RP from Gibco

## ALIGNMENTS

H61808 yu41c09.s1 H61808 yu41c09.s1

AW59793 LE5911.yg H61808 yu41c09.s1

D12082 HUN0S16A04 D12082 HUN0S16A04

D19127 MUGS01342 D19127 MUGS01342

BH643552 100058F0 BH643552 100058F0

B33982 HS-1023-B2- B33982 HS-1023-B2-

R54182 yg8b12.rl R54182 yg8b12.rl

BH41596 107045F1 BM307600 sak3109

C01969 HUNGS000398 BM01873 60364662

BM01873 60364662 C02010 HUNGS000453

B33982 H23116 Y143b09.s1 H23116 Y143b09.s1

AL46728 T. brucei AL46728 T. brucei

AZ307924 IM010524 AZ307924 IM010524

BZ636462 SWOVLCSAZ AZ960593 2M0228B110

AL644576 AL644576

AI215407 qh07f12.x AL222379 Tetraodon

F33772 HSPD27429 H F33772 HSPD27429 H

AZ467917 1M0279E08 AZ467917 1M0279E08

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AA930315 yg59c04.r AA930315 yg59c04.r

AA585405 PPH327A.H AF179956 AF179956

B40784 HS-1052-B1- AL266390 Tetraodon

AV533467 AV533467

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Maximum DB seq length: 100

Post-processing: Listing first 45 summaries

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- 3: em\_estin;\*
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- 6: em\_estpl;\*
- 7: em\_estro;\*
- 8: em\_htc;\*
- 9: gb\_est1;\*
- 10: gb\_est2;\*
- 11: gb\_htcc;\*
- 12: gb\_est3;\*
- 13: gb\_est4;\*
- 14: gb\_est5;\*
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- 19: em\_gss\_inv;\*
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- 23: em\_gss\_mus;\*
- 24: em\_gss\_other;\*
- 25: em\_gss\_pro;\*
- 26: em\_gss\_rnd;\*
- 27: em\_gss\_rnd;\*

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 /sex="male"  
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 /lab\_host="DH10B"  
 /note="Organ: lung; cell line: Vector: pcMV-SPORT6;  
 Site\_1: EcoRV; Site\_2: NotI; Cloned unidirectionally, no  
 5' adaptor. Primer: Oligo dT. Full-length library  
 constructed by Life Technologies."  
 BASE COUNT 46 a 8 c 30 g 9 t  
 ORIGIN Query Match 0.9%; Score 18; DB 10; Length 93;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 10 GGAAAGTAGGAAGATGA 27  
 Db 75 GGAAAGTAGGAAGATGA 92  
 RESULT 2  
 BF636617/c LOCUS 52 bp mRNA linear EST 19-DEC-2000  
 DEFINITION NF091E04DT1F1034 Drought Medicago truncatula cDNA clone NF091E04DT  
 5', mRNA sequence.  
 BF636617  
 ACCESSION BF636617.1 GI:11900775  
 VERSION EST.  
 KEYWORDS barrel medic.  
 SOURCE Medicago truncatula  
 Eukaryota; Viridiplantae; Streptophytina; Embryophyta; Tracheophyta;  
 Spermatophytina; Magnoliophyta; eudicots; core eudicots;  
 Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Tilioideae;  
 Medicago  
 1 (bases 1 to 52) REFERENCE Torrez-Jerez,I., Scott,A.D., Harris,A.R., Gonzales,R.A., Bell,C.J.,  
 Flors,H.R., Inman,J.T., Weller,J.W. and May,G.D.  
 AUTHORS Expressed Sequence Tags from the Samuel Roberts Noble Foundation  
 Medicago truncatula drought library  
 Unpublished (2000)  
 Contact: May GD  
 Plant Biology Division  
 The Samuel Roberts Noble Foundation  
 2510 Sam Noble Parkway, Ardmore, OK 73402, USA  
 Tel: 580 221 7391  
 Fax: 580 221 7380  
 Email: gdmaynoble.org  
 Insert Length: 52 Std Error: 0.00  
 Plate: 091 row: E column: 04  
 Seq primer: TCACACAGGAAACAGCTATGAC.  
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Qy 1966 AAAATAGTGAATGAAT 1982  
 Db 39 AAAATAGTGAATGAAT 23  
 RESULT 3  
 BJ048171 LOCUS 53 bp mRNA linear EST 07-DEC-2001  
 DEFINITION BJ048171 NIBB Mochii normalized Xenopus neurula library Xenopus  
 laevis cDNA clone XL018616 3', mRNA sequence.  
 ACCESSION BJ048171  
 VERSION BJ048171.1 GI:117406228  
 KEYWORDS EST.  
 SOURCE African clawed frog.  
 ORGANISM Xenopus laevis  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;  
 Xenopodinae; Xenopus.  
 REFERENCE Kitayama,A., Terasaki,C., Mochii,M., Ueno,N., Shin-i,T. and Kohara  
 Y.  
 COMMENT Unpublished (2001)  
 Contact: Tadasu Shin-i  
 Center For Genetic Resource Information  
 National Institute of Genetics  
 1111 Yata, Mishima, Shizuoka 411-8540, Japan  
 Tel: 81-559-81-6856  
 Fax: 81-559-81-6855  
 Email: tshinigenes.nig.ac.jp.  
 FEATURES source  
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 /clone\_id="NIBB Mochii normalized Xenopus neurula  
 library"  
 /tissue\_type="whole embryo"  
 /dev\_stage="stage 15"  
 /note="Vector: pBSRN3; Site\_1: NotI; Site\_2: EcoRI; cDNAs  
 were oligo-dT primed and directionally cloned. Staging  
 according to Nieuwkoop and Faber. Library is subtracted  
 and was constructed by N. Garrett and A.M. Zorn,  
 (Wellcome/CRC Institute)."  
 BASE COUNT 16 a 9 c 13 g 11 t 4 others  
 ORIGIN Query Match 0.8%; Score 16; DB 13; Length 53;  
 Best Local Similarity 100.0%; Pred. No. 8.2e+03;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 845 AGAGCCCTGGAGAA 860  
 Db 20 AGAGCCCTGGAGAA 35  
 RESULT 4  
 AZ801785 LOCUS 56 bp DNA linear GSS 16-FEB-2001  
 DEFINITION 2M0060E22P Mouse 10kb plasmid UGCC1M Library Mus musculus genomic  
 clone UGCC2M0060E22 F, DNA sequence.  
 ACCESSION AZ801785  
 VERSION AZ801785.1 GI:12954108  
 KEYWORDS GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meinen,E., Pedersen,T., Reilly  
 ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.



Fax: +55-11-2707001  
 Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
[http://www.ludwig.org.br/seq/gethtml.pl?tl=IL&t2=IL\\_BT125-004.html&t3=03029&it4=1](http://www.ludwig.org.br/seq/gethtml.pl?tl=IL&t2=IL_BT125-004.html&t3=03029&it4=1)

**FEATURES**

source	Seq primer: puc 18 forward.
	Location/Qualifiers
1..66	
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone_lib="BT125"
	/sex="female"
	/dev_stage="Adult"
	/note="Organ: breast; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT      18 a      12 c      21 g      15 t

ORIGIN      Query Match      0.8%;      Score 16;      DB 9;      Length 66;  
 Best Local Similarity      100.0%;      Pred. No. 8.6e+03;  
 Matches      16;      Conservative 0;      Mismatches 0;      Gaps 0;  
 Indels 0;

Qy      1575 GATGGCTGCTGGAAA 1590  
 Db      45 GATGGCTGCTGGAAA 60

RESULT 7  
 AI906801/C  
 LOCUS      RC-BT125-030399-008  
 DEFINITION      Homo sapiens CDNA, mRNA sequence.  
 VERSION      AI906801.1  
 VERSION      AI906801.1      GI:6497209  
 VERSION      EST.

REFERENCE  
 AUTHORS      Dicas Neto,E., Garcia Correa,R., Verjovskii-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W.Jr., Bordim,S., Costa,P.F., Goldmann,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., de Oliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.

TITLE      Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

JOURNAL      Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE      20202613

COMMENT      Contact: Simpson A.J.G.  
 Laboratory of Cancer Genetics  
 Ludwig Institute for Cancer Research  
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil  
 Tel: +55-11-2704922  
 Fax: +55-11-2707001  
 Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
<http://www.ludwig.org.br/seq/gethtml.pl?tl=RC&t2=RC-BT125-020.html&t3=04039&it4=1>

**FEATURES**

source	Seq primer: puc 18 forward.
	Location/Qualifiers
1..66	
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone_lib="BT125"
	/sex="female"
	/dev_stage="Adult"
	/note="Organ: breast; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT      18 a      12 c      21 g      15 t

ORIGIN      Query Match      0.8%;      Score 16;      DB 9;      Length 66;  
 Best Local Similarity      100.0%;      Pred. No. 8.6e+03;  
 Matches      16;      Conservative 0;      Mismatches 0;      Gaps 0;  
 Indels 0;

Qy      1575 GATGGCTGCTGGAAA 1590  
 Db      22 GATGGCTGCTGGAAA 7

RESULT 8  
 AI906818  
 LOCUS      AI906818  
 DEFINITION      RC-BT125-040399-020  
 ACCESSION      AI906818  
 VERSION      AI906818.1      GI:6497226  
 KEYWORDS      EST.

ORGANISM      Homo sapiens  
 SOURCE      Homo sapiens  
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE  
 AUTHORS      Dicas Neto,E., Garcia Correa,R., Verjovskii-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W.Jr., Bordim,S., Costa,P.F., Goldmann,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., de Oliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.

TITLE      Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

JOURNAL      Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE      20202613

COMMENT      Contact: Simpson A.J.G.  
 Laboratory of Cancer Genetics  
 Ludwig Institute for Cancer Research  
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil  
 Tel: +55-11-2704922  
 Fax: +55-11-2707001  
 Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
<http://www.ludwig.org.br/seq/gethtml.pl?tl=RC&t2=RC-BT125-020.html&t3=04039&it4=1>

**FEATURES**

source	Seq primer: puc 18 forward.
	Location/Qualifiers
1..66	
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone_lib="BT125"



University of Washington  
Seattle, WA 98195, USA  
Tel.: (206) 616-8744  
Fax: (206) 685-7301  
Email: kzachrone@washington.edu  
Sequence Tagged Connector  
Plate: CT810 row: D column: 3  
Class: BAC ends  
High quality sequence stop: 72.

FEATURES  
source

1. .72  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_Plate=CT810 Col=3 Row=D  
/clone.lib=CT Human Genomic Sperm Library C"  
/sex="M"  
/note="Organ: sperm; Vector: pheBAC11; BAC Clones in  
E-Coli DH10B"

BASE COUNT 13 a 20 c 17 g 21 t 1 others  
ORIGIN

Query Match 0.8%; Score 16; DB 17; Length 72;  
Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1020 GGCAACGCGATGAA 1035  
Db 60 GGCAACGCGATGAA 45

RESULT 12  
BH801576 LOCUS BH801576\_2.EFL\_Y1 1008 - RescueMu Grid I Zea mays genomic, DNA  
DEFINITION 1008117H12..2EFL\_Y1 1008 - RescueMu Grid I Zea mays genomic, DNA  
SEQUENCE BH801576\_1 GI:20314787

ACCESSION VERSION GSS  
KEYWORDS ORGANISM  
zea mays  
zea mays  
Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina;  
Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; PACC  
clade; Panicoidea; Andropogoneae; Zea.  
1 (bases 1 to 73)

REFERENCE AUTHORS TITLE  
Walbot, V. Maize genomic sequences found using engineered RescueMu transposon  
Unpublished (2001)  
Contact: Walbot V  
Department of Biological Sciences  
Stanford University  
855 California Ave, Palo Alto, CA 94304, USA  
Tel: 650 723 2227  
Fax: 650 725 8221  
Email: walbot@stanford.edu  
Possible ligation site of ends cut by 2 different endonucleases.  
Reverse complemented post-ligation sequence from source sequence.  
Plate: 1008117 row: 20  
Class: transposon-tagged.

FEATURES Location/Qualifiers

1. .73

/organism="Zea mays"  
/cultivar="mixed background W23/A188/B73"  
/db\_xref="taxon:4577"  
/clone.lib="1008 - RescueMu Grid I"  
/tissue\_type="leaf"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: leaf; Vector: RescueMu (engineered from  
pBluescript backbone); Site:1 BamHI; Site:2 BglII;  
RescueMu is a 4.9 kb, modified maize Mu transposon  
designed to allow plasmid rescue from total genomic DNA.  
Mu elements insert preferentially into transcription  
units. For more information on RescueMu, go to the web

site www.zmdb.iastate.edu and follow the links for  
'RescueMu.' Grid I was grown at Berkeley in 2001. DNA was  
extracted from leaf punches, double digested using BamHI  
and BglII, and ligated to form circular plasmids. DH10B  
cells were transformed and then screened on LB plates with  
ampicillin."

BASE COUNT 22 a 19 c 22 g 10 t

ORIGIN

Query Match 0.8%; Score 16; DB 17; Length 73;  
Best Local Similarity 100.0%; Pred. No. 8.7e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 60 AAGACGTGAGCGA 75  
Db 1 AAGACGTGAGCGA 16

RESULT 13  
BJ034007 LOCUS BJ034007 NIBB Mochii normalized Xenopus neurula library Xenopus  
DEFINITION laevis cDNA clone XL025010 5', mRNA sequence.  
BJ034007  
ACCESSION BJ034007  
VERSION 1  
KEYWORDS EST,  
SOURCE African clawed frog.  
ORGANISM Xenopus laevis  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;  
Xenopodinae; Xenopus.  
1 (bases 1 to 79)

REFERENCE AUTHORS TITLE  
Kitayama,A., Terasaka,C., Mochii,M., Ueno,N., Shin-i,T. and Kohara  
Y.  
Expressed genes in X. laevis embryo  
Unpublished (2001)  
Contact: Tadasu Shin-i  
Center For Genetic Resource Information  
National Institute of Genetics  
1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6056  
Fax: 81-559-81-6885  
Email: tshini@genes.nig.ac.jp.  
FEATURES SOURCE  
/tissue-type="whole embryo"  
/organism="Xenopus laevis"  
/db\_xref="taxon:8155"  
/clone="XL025010"  
/clone.lib="NIBB Mochii normalized Xenopus neurula  
library"  
/dev\_stage="stage 15"  
/note="vector: pBSRN3; Site:1: NotI; Site:2: EcoRI; cDNAs  
were Oligo-dT primed and directionally cloned. Staging  
according to Nielkoop and Faber. Library is subtracted  
and was constructed by N. Garrett and A.M. Zorn,  
(Wellcome/CRC Institute)."

BASE COUNT 17 a 14 c 25 g 23 t  
ORIGIN

Query Match 0.8%; Score 16; DB 13; Length 79;  
Best Local Similarity 100.0%; Pred. No. 8.9e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 80 TCTGAGGGACCTGAG 95  
Db 55 TCTGAGGGACCTGAG 70

RESULT 14  
AA761095 LOCUS AA761095.s1 NCI\_CGAP\_GCB1 Homo sapiens cDNA clone IMAGE:1271673'  
DEFINITION

similar to SW:GLI4\_HUMAN P10075 GLI4 PROTEIN ; mRNA sequence.

ACCESSION AA61095  
VERSION AA61095.1  
SOURCE EST, human.  
ORGANISM Homo sapiens  
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
TITLE Unpublished (1997)  
JOURNAL COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaps@email.nih.gov  
Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman, Ph.D., Gerald Marti, M.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.  
DNA Sequencing by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: www-bio.lnl.gov/bbrp/image/image.html

Trace considered overall poor quality  
Insert Length: 1224 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 1.

FEATURES source  
/clone\_xref="IMAGP:1271673"  
/clone\_lib="NCI\_CGAP\_GCB1"  
/tissue\_type="germinal center B cell"  
/note="Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dt) primer [5'-TGTTACCAANTCTGAGTGGAGGCCCTATTTTTTTTT-3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT ORIGIN  
7 a 35 c 22 g 18 t

RESULT 15  
AA620617/c LOCUS AA620617  
DEFINITION af84b06\_s1 Soares testis\_NH mRNA linear EST 14-OCT-1997  
ACCESION AA620617  
VERSION AA620617.1 GI:2524556  
KEYWORDS human.  
SOURCE Homo sapiens  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 88)  
REFERENCE Hillier,L., Allen,M., Bowles,L., Dubroque,T., Geisel,G., Jost,S., Krishnan,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B., Scheibenbogen,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R.  
AUTHORS Kristian D., Kucaba T., Lacy M., Le N., Lennon G., Marra M., Martin J., Moore B., Scheibenbogen K., Steptoe M., Tan F., Theising B., White Y., Wylie T., Waterston R. and Wilson R.  
TITLE Wash-NCI human EST Project  
COMMENT Unpublished (1997)  
Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@washu.edu This clone is available royalty-free through LINL; contact the IMAGE Consortium (info@image.lnl.gov) for further information. Trace considered overall poor quality Possible reversed clone: similarity on wrong strand Possible reversed clone: polyt not found Seq Primer: -40m13 fwd. ET from Amersham High quality sequence stop: 1.

FEATURES source  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1048651"  
/sex="male"  
/lab\_host="DH10B"  
/note="Vector: pT73D-Pac (Pharmacia) with a modified polylinker. Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories Inc., and primed with a Not I - oligo(dt) primer (5'-TGTTACCAANTCTGAGTGGAGGCCCTATTTTTTT-3'). Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT ORIGIN  
17 a 33 c 25 g 13 t

Query Match Score 0.88; Score 16; DB 9; Length 88;  
Best Local Similarity 100.0%; Pred. No. 9.1e-03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 GGGCTGCCGAGCTGGG 111  
DB 75 GGCTGCCGAGCTGGG 60

Search completed: July 4, 2003, 10:37:47  
Job time : 2908 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw mode!

Run on: July 4, 2003, 06:57:16 ; Search time 98 Seconds  
(without alignments)  
6305.650 Million cell updates/sec

Title: US-10-007-010-3  
Perfect score: 2015  
Sequence: 1 cggggcacgaaatggagg.....attaaatgcagaatcttacg 2015

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 441362 seqs, 153338381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 687286

Minimum DB seq length: 0  
Maximum DB seq length: 100

Post-processing: Listing first 45 summaries

Database : Issued\_Patents\_NA:\*

1: /cn2\_6/podata/1/ina/5A\_COMB.seq:\*

2: /cn2\_6/podata/1/ina/5B\_COMB.seq:\*

3: /cn2\_6/podata/1/ina/6A\_COMB.seq:\*

4: /cn2\_6/podata/1/ina/6B\_COMB.seq:\*

5: /cn2\_6/podata/1/ina/PCUTS\_COMB.seq:\*

6: /cn2\_6/podata/1/ina/backfiles.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query ID	Match Length	DB ID	Description
c 1	18	0.9	20	2 US-08-910-629A-31	Sequence 31, Appl
c 2	18	0.9	20	2 US-08-910-629A-42	Sequence 42, Appl
c 3	18	0.9	20	3 US-09-209-668-7	Sequence 7, Appl
c 4	18	0.9	20	3 US-09-287-796-31	Sequence 31, Appl
c 5	18	0.9	20	3 US-09-287-796-42	Sequence 42, Appl
c 6	18	0.9	20	4 US-09-130-616-1	Sequence 31, Appl
c 7	18	0.9	20	4 US-09-130-616-42	Sequence 42, Appl
c 8	17	0.8	20	2 US-08-730-876-2	Sequence 2, Appl
c 9	17	0.8	20	2 US-09-490-692-1	Sequence 71, Appl
c 10	17	0.8	23	1 US-08-222-616-2	Sequence 2, Appl
c 11	17	0.8	23	4 US-08-446-648-2	Sequence 2, Appl
c 12	17	0.8	23	5 PCT-US95-04228-2	Sequence 2, Appl
c 13	16	0.8	20	4 US-09-506-073-82	Sequence 82, Appl
c 14	16	0.8	24	2 US-08-859-998-598	Sequence 598, App
c 15	16	0.8	24	4 US-09-225-928-598	Sequence 598, App
c 16	15	0.7	18	3 US-08-951-923-51	Sequence 51, Appl
c 17	15	0.7	18	4 US-08-584-040-6218	Sequence 6218, Ap
c 18	15	0.7	19	1 US-08-400-580A-11	Sequence 11, Appl
c 19	15	0.7	31	2 US-08-942-423-51	Sequence 51, Appl
c 20	15	0.7	36	3 US-08-951-923-52	Sequence 52, Appl
c 21	15	0.7	36	4 US-08-724-586-3	Sequence 3, Appl
c 22	15	0.7	36	4 US-09-421-632-3	Sequence 3, Appl
c 23	15	0.7	36	4 US-09-932-190-3	Sequence 3, Appl
c 24	15	0.7	45	2 US-08-039-198B-3	Sequence 47, Appl
c 25	15	0.7	72	2 US-08-707-237A-47	Sequence 7661, Ap
c 26	14	0.7	17	4 US-08-584-040-7661	Sequence 197, App
c 27	14	0.7	18	1 US-08-105-483-197	Sequence 197, App

## ALIGNMENTS

RESULT 1  
US-08-910-629A-31/c  
; Sequence 31, Application US/08910629A  
; Patent No. 5877309

; GENERAL INFORMATION:  
; APPLICANT: Robert A. McKay  
; APPLICANT: Nicholas M. Dean  
; APPLICANT: Brett Monia  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 86  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Law Offices of Jane Massey Licata  
; STREET: 66 East Main Street  
; CITY: Marlton  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 08053

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB  
; MEDIUM TYPE: STORAGE  
; COMPUTER: PENTIUM  
; OPERATING SYSTEM: WINDOWS 95  
; SOFTWARE: WORDPERFECT 6.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910,629A  
; FILING DATE: August 13, 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane Massey Licata  
; REGISTRATION/DOCKET NUMBER: ISPH-0215  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (609) 779-2400  
; TELEFAX: (609) 779-8488  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20  
; TYPE: Nucleic Acid  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear  
; ANTI-SENSE:  
; US-08-910-629A-31

Query Match Score 18; DB 2; Length 20;  
Best Local Similarity 100.0%; Pred. No. 28;

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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1300 GACTTGGCCCTGGCCCCG 1317 ; FILE REFERENCE: ISPH-0336
Db 20 GACTTGGCCCTGGCCCCG 3 ; CURRENT FILING DATE: 1998-12-10
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO: 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: antisense sequence
; OTHER INFORMATION: antisense sequence
US-09-209-668-7

RESULT 2
Sequence 42, Application US/08910629A
; GENERAL INFORMATION:
; Patent No. 5871309
; APPLICANT: Robert A. McKay
; APPLICANT: Nicholas M. Dean
; APPLICANT: Brett Monia
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK PROTEINS
TITLE OF INVENTION: PROTEINS
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Jane Massey Licata
STREET: 66 East Main Street
CITY: Marlton
STATE: NJ
COUNTRY: USA
ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB
COMPUTER: PENTIUM
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,629A
FILING DATE: August 13, 1997
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 514
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: ISPH-0215
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 779-7400
TELEFAX: (609) 779-8488
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: No
US-08-910-029A-42

Query Match 0.9%; Score 18; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 28; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1300 GACTTGGCCCTGGCCCCG 1317 ; FILE REFERENCE: ISPH-0336
Db 20 GACTTGGCCCTGGCCCCG 3 ; CURRENT FILING DATE: 1998-12-10
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO: 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: antisense sequence
; OTHER INFORMATION: antisense sequence
US-09-209-668-7

RESULT 4
US-09-287-796-31/C
; Sequence 31, Application US/09287796A
; Patent No. 6133446
; GENERAL INFORMATION:
; APPLICANT: McKay, Robert A.
; APPLICANT: Dean, Nicholas M.
; APPLICANT: Monia, Brett
; APPLICANT: Nero, Pam
; APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0350
CURRENT APPLICATION NUMBER: US/09/287,796A
PRIORITY APPLICATION NUMBER: 09/130,616
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER FILING DATE: 1998-08-07
EARLIER FILING DATE: 1997-08-03
NUMBER OF SEQ ID NOS: 165
SEQ ID NO: 31
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-287-796-31

Query Match 0.9%; Score 18; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 28; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1300 GACTTGGCCCTGGCCCCG 1317 ; FILE REFERENCE: ISPH-0336
Db 20 GACTTGGCCCTGGCCCCG 3 ; CURRENT FILING DATE: 1998-12-10
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO: 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: antisense sequence
; OTHER INFORMATION: antisense sequence
US-09-287-796-42

RESULT 5
; Sequence 42, Application US/09287796A
; Patent No. 6133446
; GENERAL INFORMATION:
; APPLICANT: McKay, Robert A.
; APPLICANT: Dean, Nicholas M.
; APPLICANT: Monia, Brett
; APPLICANT: Nero, Pam
; APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0350
CURRENT APPLICATION NUMBER: US/09/287,796A
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO: 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: antisense sequence
; OTHER INFORMATION: antisense sequence
US-09-209-668-7/C
; Sequence 7, Application US/09209668A
; Patent No. 6114517
; GENERAL INFORMATION:
; APPLICANT: Monia, Brett P.
; APPLICANT: Xu, Xiaoxing S.
TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR
; TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES
; TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES

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; CURRENT FILING DATE: 1999-04-07
; EARLIER APPLICATION NUMBER: US09130,616
; EARLIER FILING DATE: 1998-08-07
; EARLIER APPLICATION NUMBER: US0910,629
; NUMBER OF SEQ ID NOS: 165
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Synthetic Sequence
US-09-287-796-42

Query Match 0.9%; Score 18; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 18; Conservative 0; Mismatches 0; Gaps 0;
Oy 1300 GACTTGGCTGGCCGG 1317
| 1 ||||||| | | | | | | | | | | | | | |
Db 1 GACTTGGCTGGCCGG 18

RESULT 7
US-09-130-616-42
; Sequence 42, Application US/09130616C
; Patent No. 6221850
; GENERAL INFORMATION:
; APPLICANT: McKay, Robert A.
; APPLICANT: Dean, Nicholas M.
; APPLICANT: Monia, Brett
; APPLICANT: Nero, Pam
; APPLICANT: Gaarde, William A.
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
; FILE REFERENCE: ISPH-0318
; CURRENT APPLICATION NUMBER: US09130,616C
; CURRENT FILING DATE: 1998-08-07
; EARLIER APPLICATION NUMBER: US0910,629
; EARLIER FILING DATE: 1997-08-03
; NUMBER OF SEQ ID NOS: 178
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Synthetic Sequence
US-09-130-616-31

Query Match 0.9%; Score 18; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 18; Conservative 0; Mismatches 0; Gaps 0;
Oy 1300 GACTTGGCTGGCCGG 1317
| 1 ||||||| | | | | | | | | | | | | | |
Db 20 GACTTGGCTGGCCGG 3

RESULT 8
US-08-730-876-2/C
; Sequence 2, Application US/08730876
; Patent No. 585314
; GENERAL INFORMATION:
; APPLICANT: HIBBS, Margaret L. ;
; APPLICANT: DUNN, Ashley R. ;
; APPLICANT: GRAILL, Dianne ;
; APPLICANT: HODGSON George ;
; APPLICANT: TARRANTON, David M. ;
; APPLICANT: ARMES, Jane
; TITLE OF INVENTION: ANIMALS WITH TARGETED GENE DELETION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felice & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44mb
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US08/730,876
; FILING DATE: 18-Oct-1996
; CLASSIFICATION: 800
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 60/005,578
; FILING DATE: 20-Oct-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 585314 and D. Hanson
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5369 - JEL/NDH/SLH
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; GENERAL INFORMATION:
; APPLICANT: McKay, Robert A.
; APPLICANT: Dean, Nicholas M.
; APPLICANT: Monia, Brett
; APPLICANT: Nero, Pam
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
; FILE REFERENCE: ISPH-0318
; CURRENT APPLICATION NUMBER: US09130,616C
; CURRENT FILING DATE: 1998-08-07
; Sequence 42, Application US/09130616C
; Patent No. 6221850
; GENERAL INFORMATION:
; APPLICANT: McKay, Robert A.
; APPLICANT: Dean, Nicholas M.
; APPLICANT: Nero, Pam
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
; FILE REFERENCE: ISPH-0318
; CURRENT APPLICATION NUMBER: US09130,616C
; CURRENT FILING DATE: 1998-08-07
; Sequence Match 0.8%; Score 17; DB 2;
; Best Local Similarity 100.0%; Pred. No. 89;
; Matches 17; Conservative 0; Mismatches 0; Gaps 0;
Oy 916 GGCGAGTGCGGAAGT 932
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Db 17 GGGAGTTGGGAAGT 1

RESULT 9  
US-09-490-692-71/C  
; Sequence 71, Application US/09490692  
; Patent No. 618053  
; GENERAL INFORMATION:  
; APPLICANT: Nicholas M. Dean  
; ATTORNEY: Lex M. Cowert  
; TITLE OF INVENTION: ANTISENSE MODULATION OF DAXX EXPRESSION  
; FILE REFERENCE: RTS-0120  
; CURRENT APPLICATION NUMBER: US/09/490-692  
; CURRENT FILING DATE: 2000-01-24  
; NUMBER OF SEQ ID NOS: 176  
; SEQ ID NO 71  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-490-692-71

Query Match 0.8%; Score 17; DB 4; Length 20;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 17; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

Qy 28 TCAGGAGATGATGAAAG 44  
Db 18 TCAGGAGATGATGAAAG 2

RESULT 10  
US-08-222-616-2/C  
; Sequence 2, Application US/08222616  
; Patent No. 5635177  
; GENERAL INFORMATION:  
; APPLICANT: Bennett, Brian D.  
; APPLICANT: Goeddel, David  
; APPLICANT: Lee, James M.  
; APPLICANT: Matthews, William  
; APPLICANT: Tsai, Siao Ping  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST ANTIBODIES  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 460 Point San Bruno Blvd  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Winpatin (Genentech)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/446,648  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/222616  
; FILING DATE: 04-APR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lee, Wendy M.  
; REGISTRATION NUMBER: 40,378  
; REFERENCE/DOCKET NUMBER: P0821P3PCT  
; TELEPHONE: 415/225-1994  
; TELEFAX: 415/952-8881  
; TELEX: 910/371-7168  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 23 base pairs  
; TYPE: Nucleic Acid  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear  
US-08-446-648-2

Query Match 0.8%; Score 17; DB 4; Length 23;  
Best Local Similarity 100.0%; Pred. No. 89;  
Matches 17; Conservative 0; Mismatches 0;  
Indels 0; Gaps 0;

```

RESULT 12
PCT-US95-04228-2/C
; Sequence 2, Application PC/TUS9504228
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Bennett, Brian D.
; APPLICANT: Goeddel, David
; APPLICANT: Lee, James M.
; APPLICANT: Matthews, William
; APPLICANT: Tsai, Shao Ping
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST ANTIBODIES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: patin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04228
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/222616
; FILING DATE: 04-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Wendy M. Lee
; REGISTRATION NUMBER: 00,000
; REFERENCE/DOCKET NUMBER: 821P3PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-1994
; TELEFAX: 415/952-3881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PCT-US95-04228-2

Query Match Score 17; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Oligo 0
Qy 1420 GACGTCTGGTCCATTGG 1436
Db 23 GAGGTCAGGGTCCATTGG 7

RESULT 13
US-09-506-073-82/C
; Sequence 82, Application US/09506073
; Patent No. 6410518
; GENERAL INFORMATION:
; APPLICANT: Monia, Brett P.
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/09/506,073
; CURRENT FILING DATE: 2000-02-18
; EARLIER APPLICATION NUMBER: US 09/143,214

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;

FEATURE:  
OTHER INFORMATION: Oligonucleotide primer  
US-08-859998-598

Query Match    0.8%; Score 16; DB 2; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy    1236 CATCCACCGAGACCTC 1251  
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Db    8 CATCCACCGAGACCTC 23

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RESULT 15  
US-09-225-928-598

Sequence 598, Application US/092259828  
; Patent No. 6352839

GENERAL INFORMATION:  
APPLICANT: Chenchik, Alex  
Jokhadze, George  
Bibilashvili, Robert

TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
EXPRESSION

NUMBER OF SEQUENCES: 13/15

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/225, 928  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/859, 998  
FILING DATE: 21-MAY-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37, 620  
REFERENCE/DOCKET NUMBER: 09096/002001.

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-851-0875

INFORMATION FOR SEQ ID NO: 598:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA

FEATURE:  
OTHER INFORMATION: oligonucleotide Primer  
SEQUENCE DESCRIPTION: SEQ ID NO: 598:

Query Match    0.8%; Score 16; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy    1236 CATCCACCGAGACCTC 1251  
          |||||||  
Db    8 CATCCACCGAGACCTC 23

Best Local Similarity 100.0%; Pred. No. 1.8e+03;  
 Matches 17; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;  
 QY 28 TCAGGAGATGATGAAG 44  
 ||||| | | | | | | | | | | |  
 Db 18 TCAGGAGATGATGAAG 2

## RESULT 15

AX201544/C AX201544 21 bp DNA linear PAT 30-AUG-2001  
 LOCUS Sequence 223 from Patent WO0153486.

DEFINITION AX201544

VERSION AX201544.1 GI:15391386

KEYWORDS

ORGANISM synthetic construct.

synthetic sequences.

REFERENCE 1 (bases 1 to 21)

Ashkenazi,A.J., Goddard,A., Godowski,P.J., Gurney,A.L.,  
 Hillian,K.J., Marsters,S.A., Pan,J., Pitti,R.M., Roy,M.A., Smith,V.,  
 Stone,D.M., Watanabe,C.K. and Wood,W.I.,  
 Compositions and methods for the treatment of tumour  
 Patent: WO 0153486-A 223 26-JUL-2001;  
 Genentech, Inc. (US)

FEATURES Location/Qualifiers

source 1..21

/organism="synthetic construct"  
 /db\_xref="taxon:32630"  
 /note="Synthetic Oligonucleotide Probe."

BASE COUNT 7 a 8 c 3 g 3 t

ORIGIN

Query Match 0.83%; Score 17; DB 6; Length 21;

Best Local Similarity 100.0%; Pred. No. 1.8e+03;  
 Matches 17; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

QY 907 CTRGGAGTGGGAGTT 923

Db 19 CTRGGAGTGGGAGTT 3

Search completed: July 4, 2003, 08:32:26  
 Job time : 5240 secs

